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Fig. 1

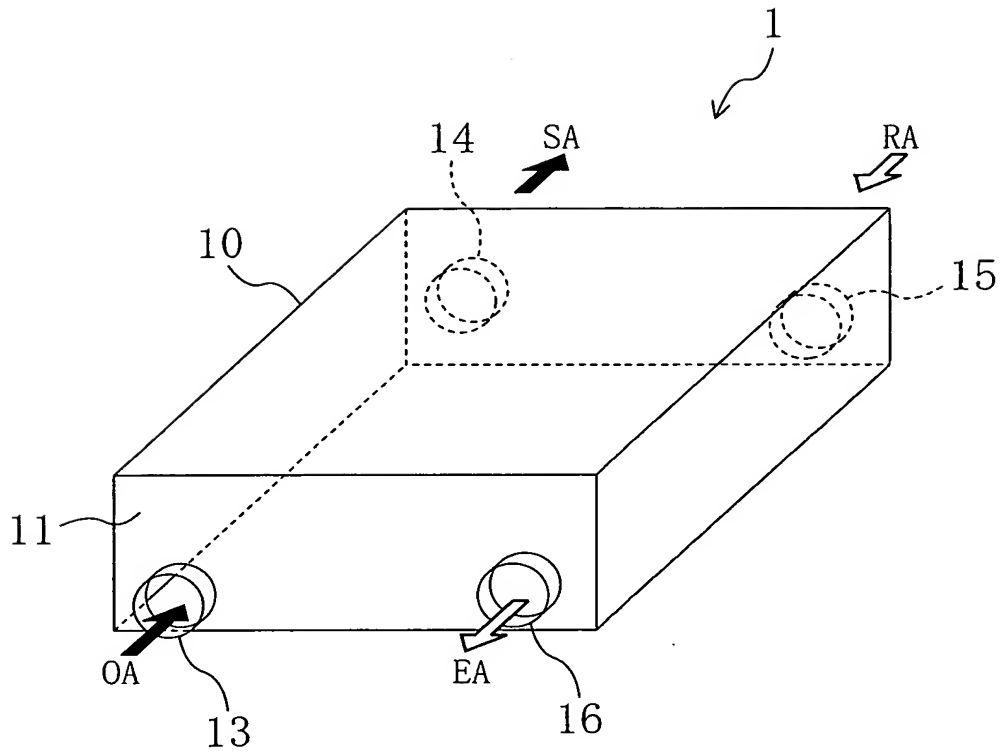


Fig. 2

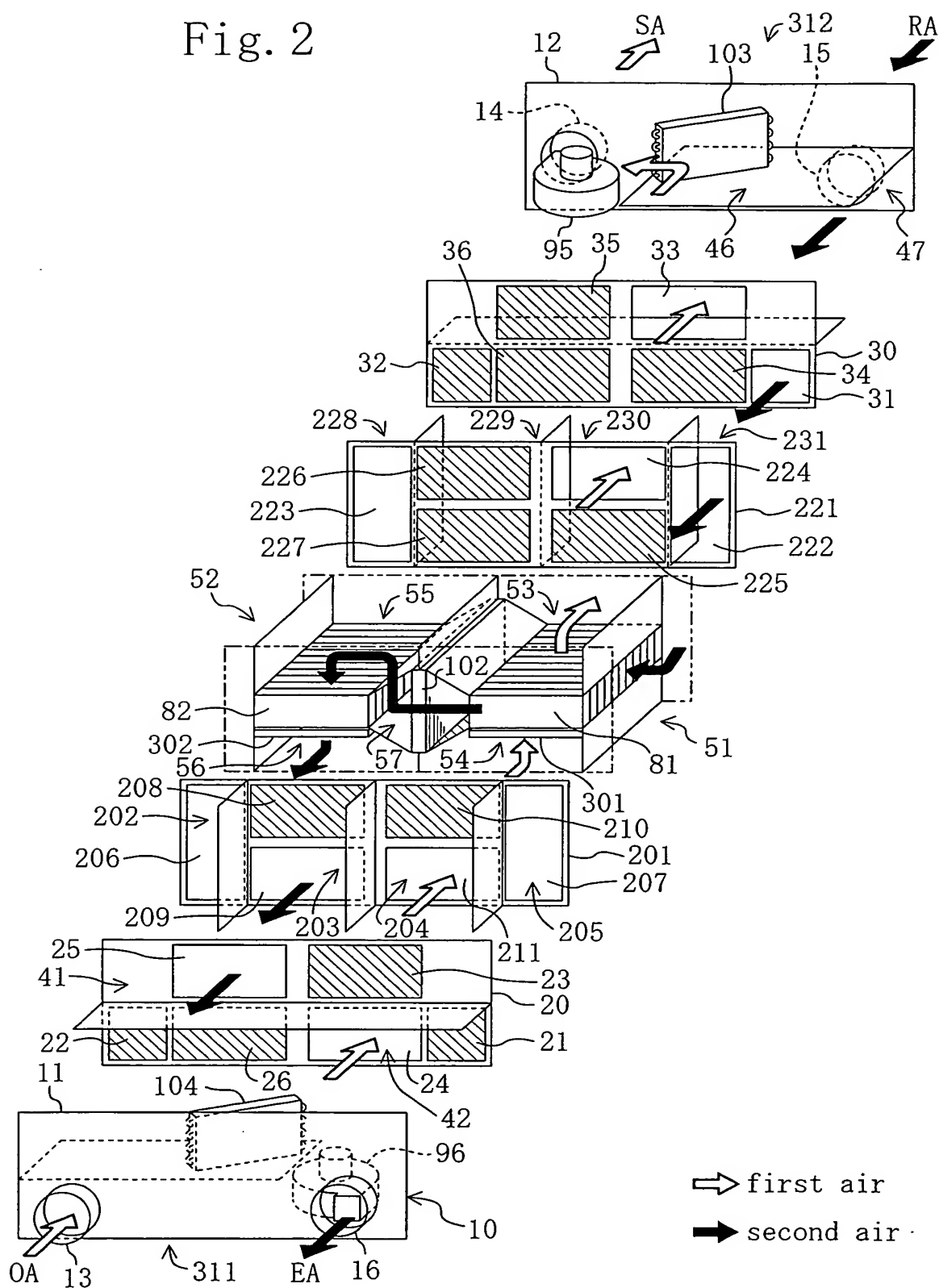


Fig. 3

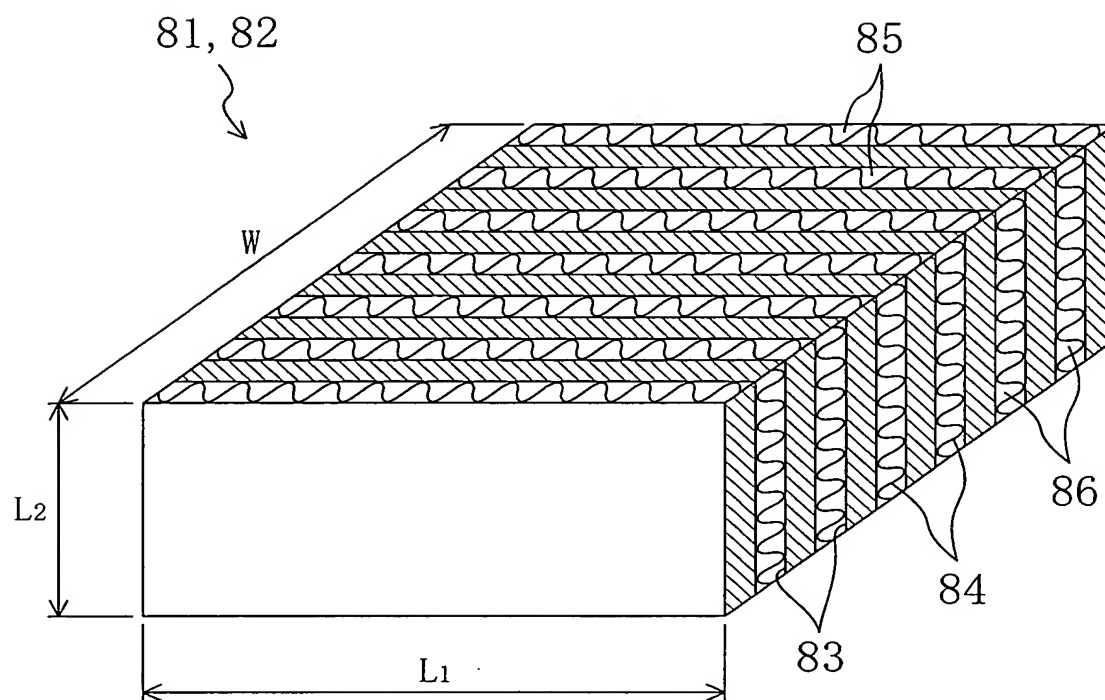
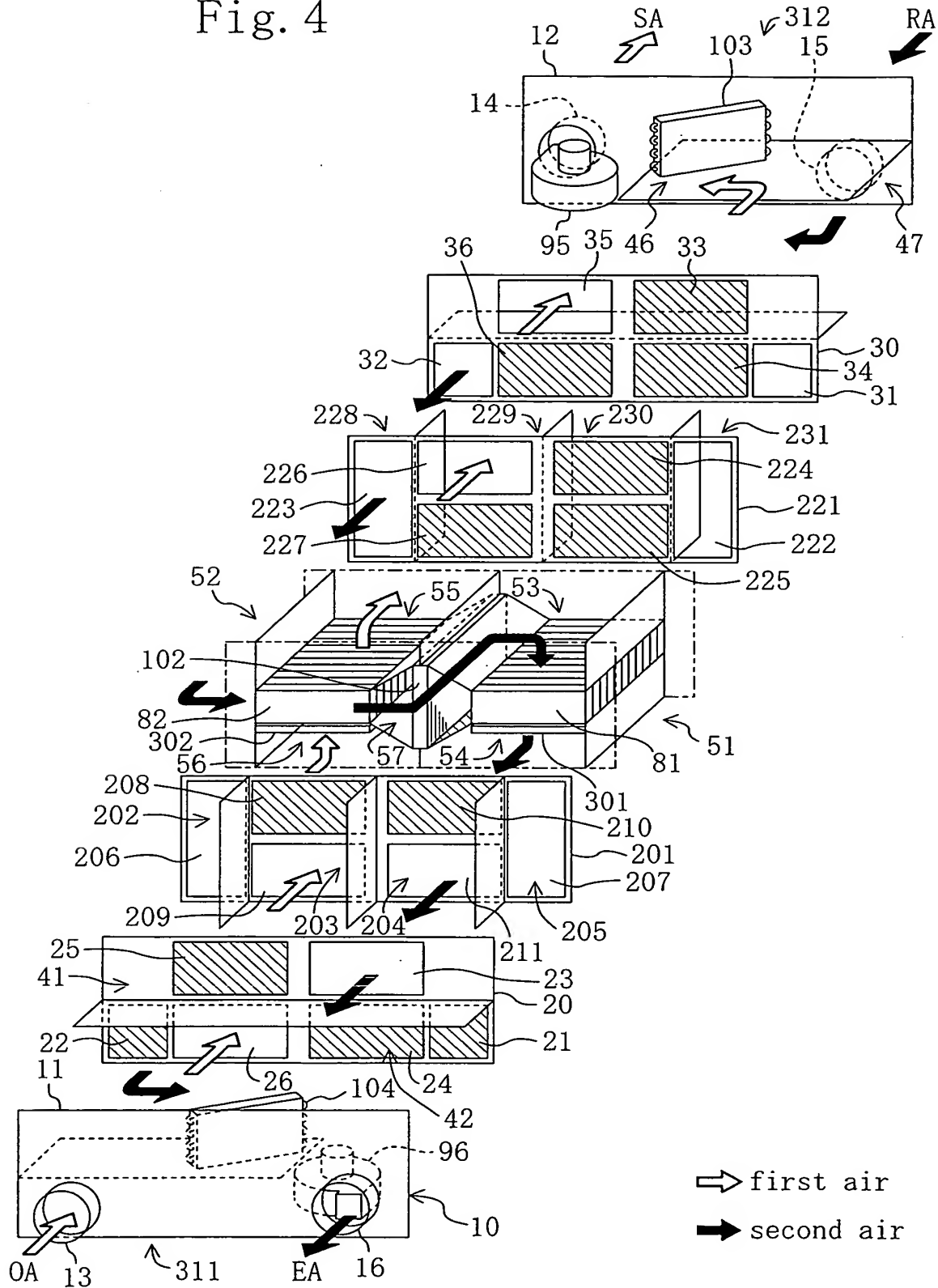


Fig. 4



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Fig. 5A

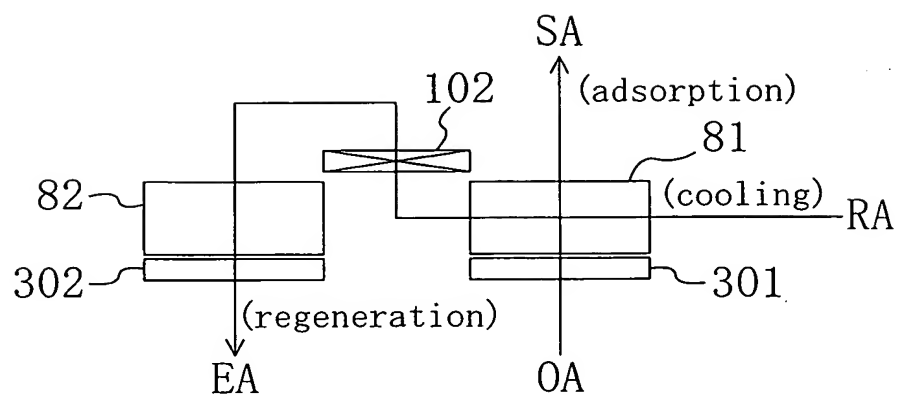
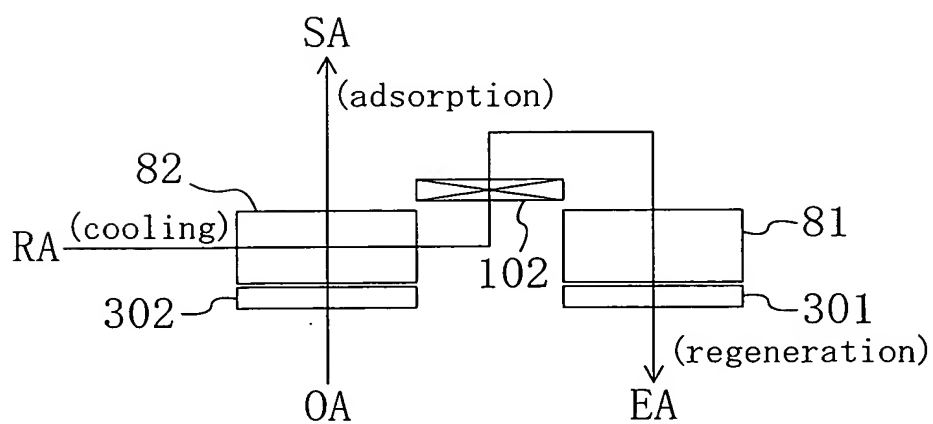


Fig. 5B



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Fig. 6A

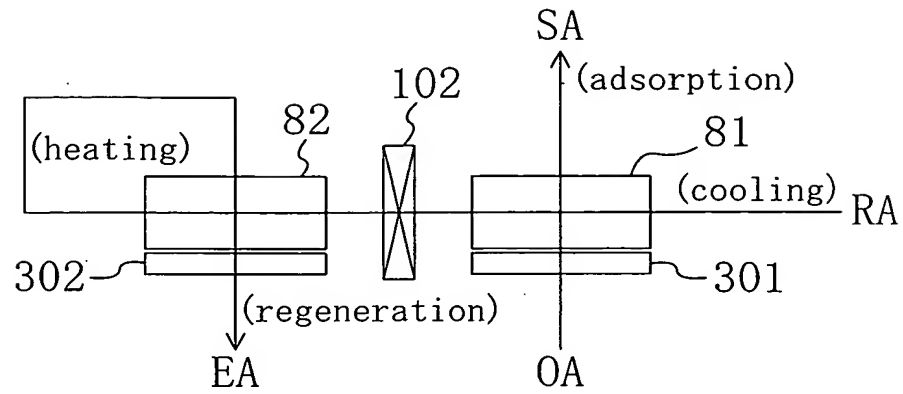
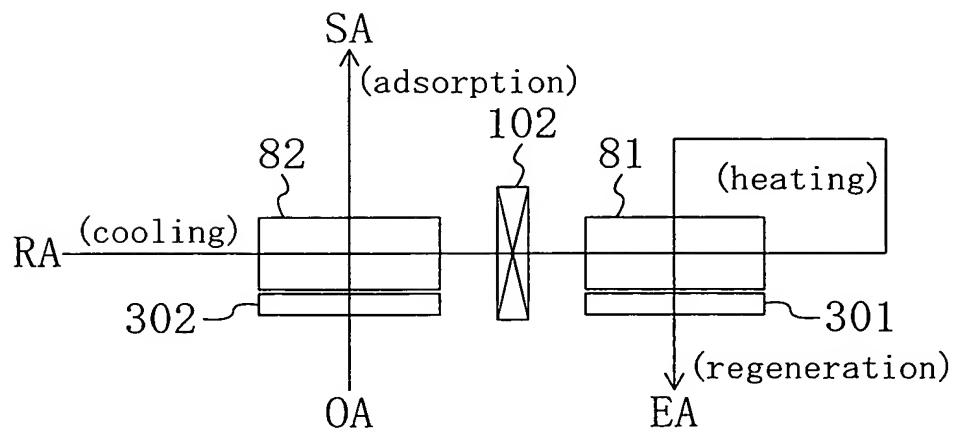


Fig. 6B



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Fig. 7A

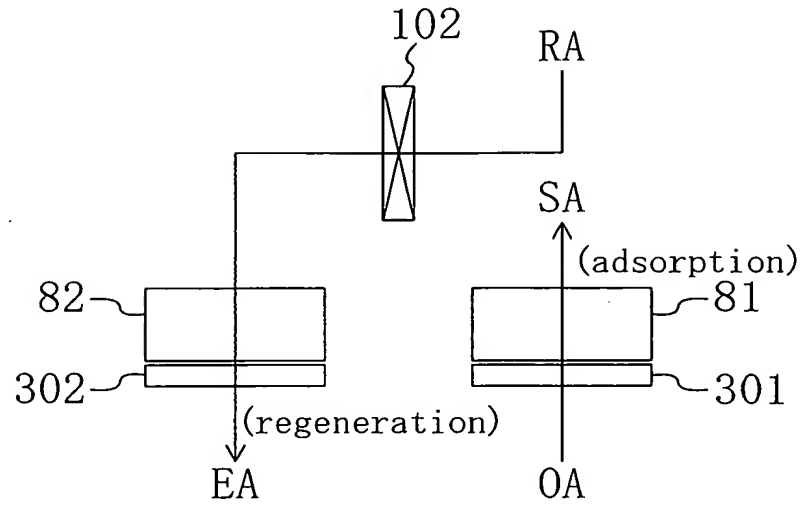
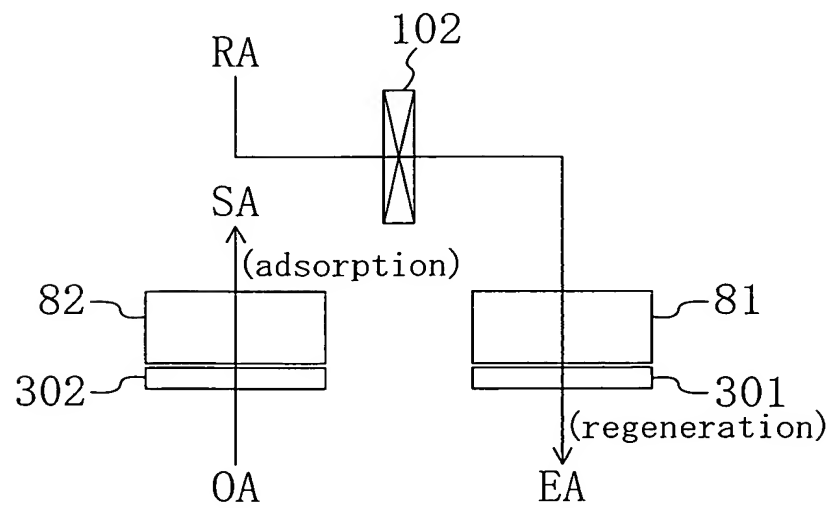
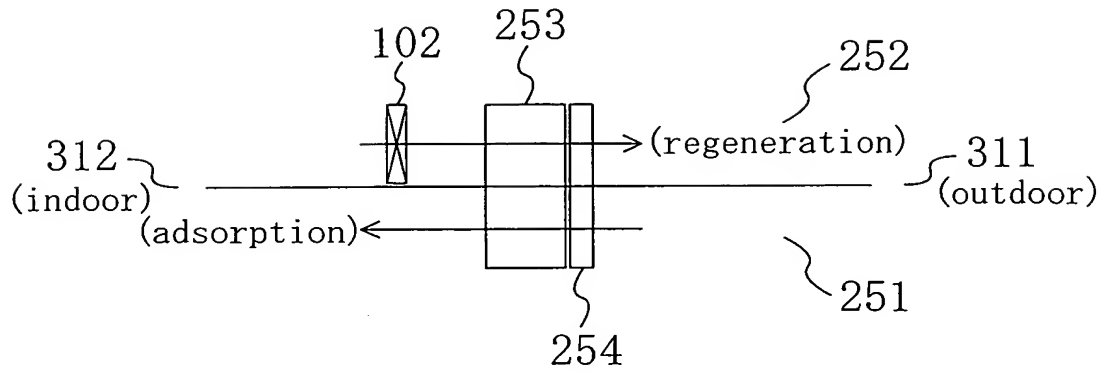


Fig. 7B



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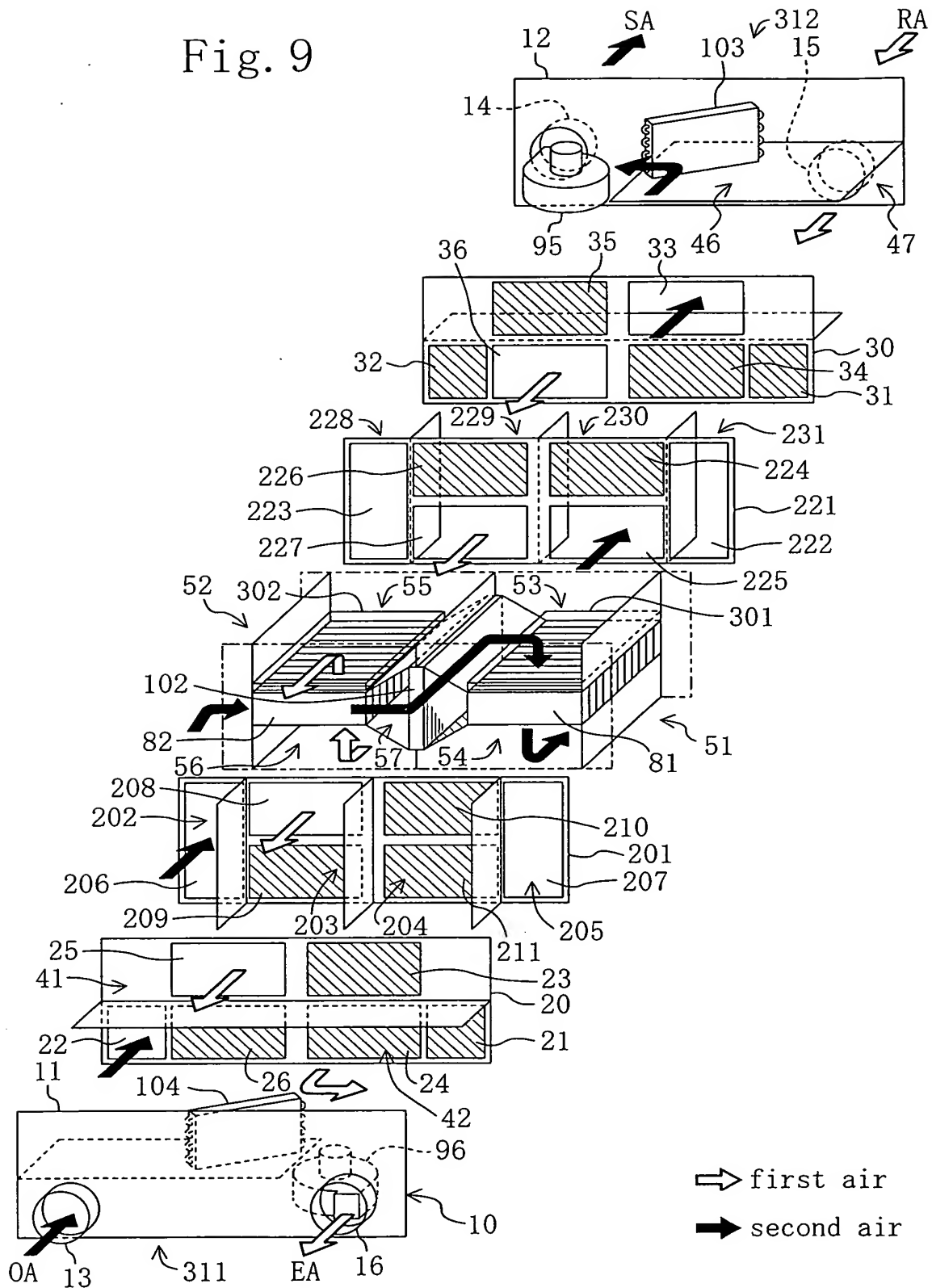
Fig. 8





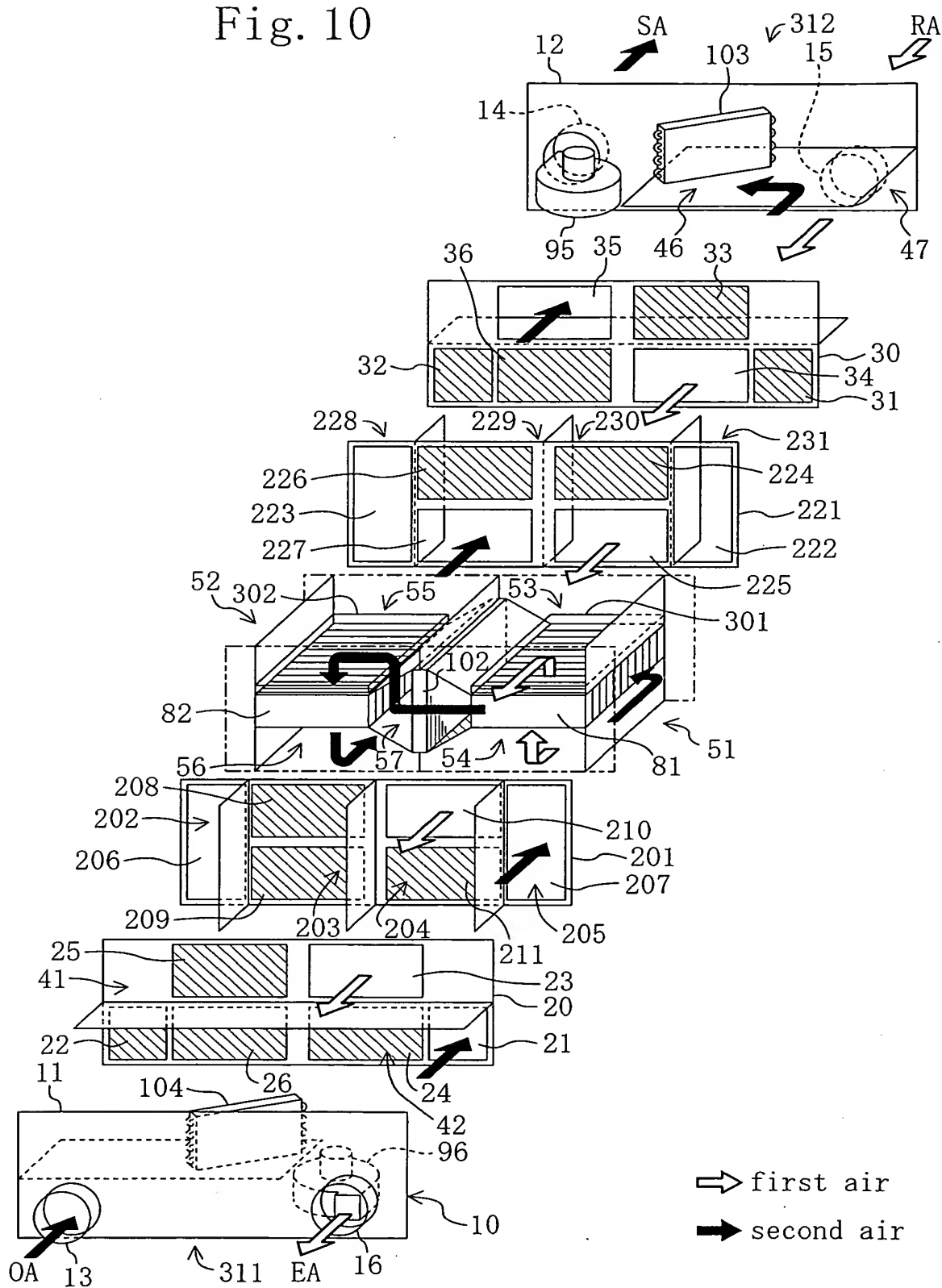
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Fig. 9



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Fig. 10



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Fig. 11A

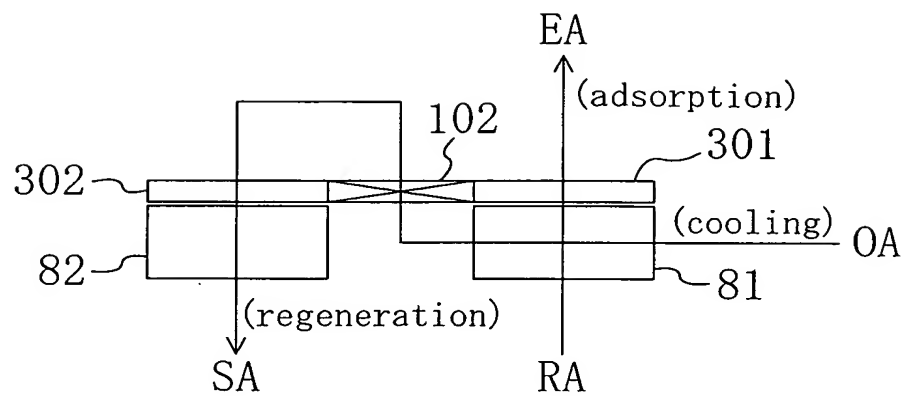
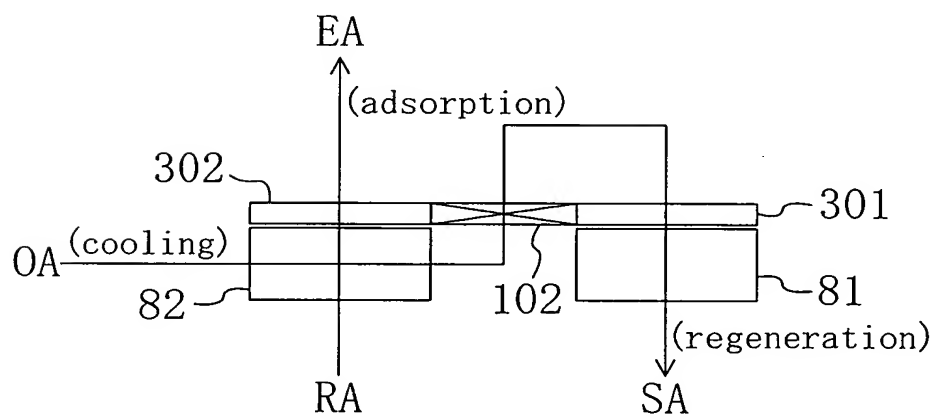


Fig. 11B



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Fig. 12A

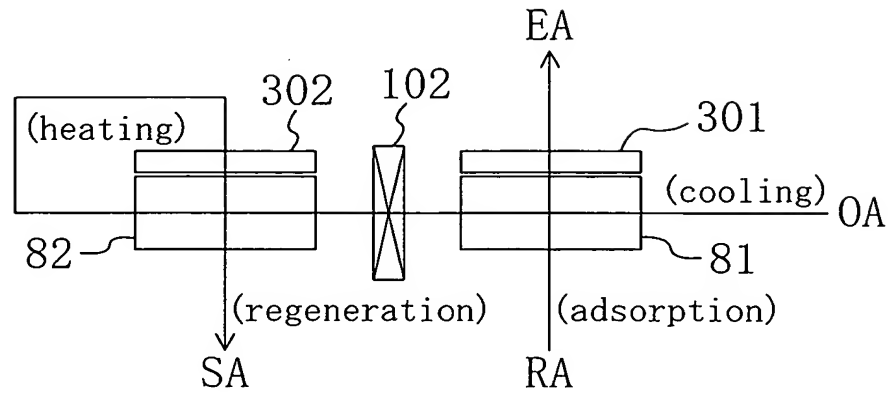
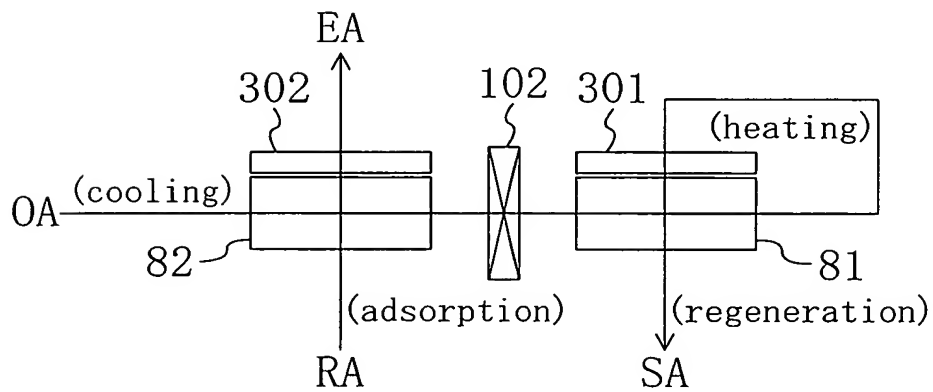


Fig. 12B



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Fig. 13A

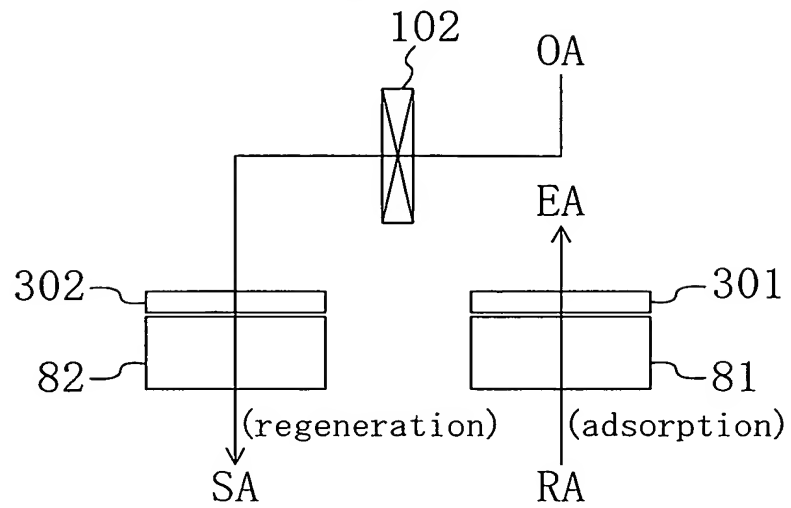


Fig. 13B

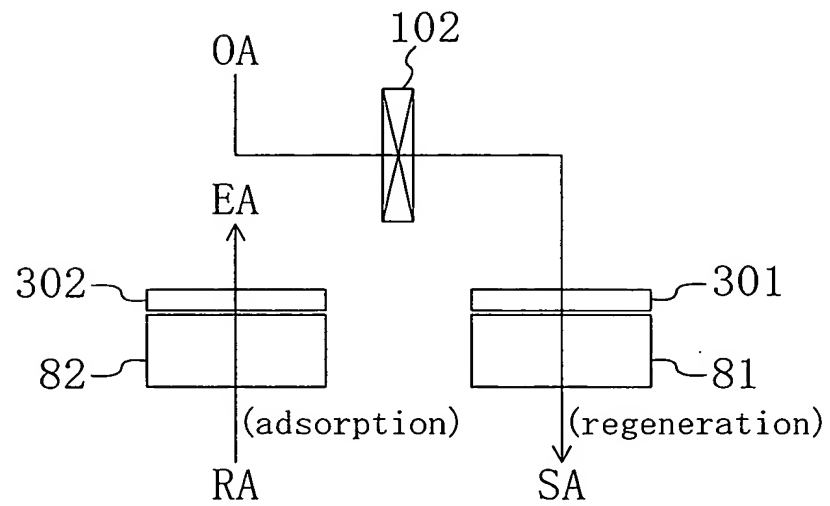


Fig. 14

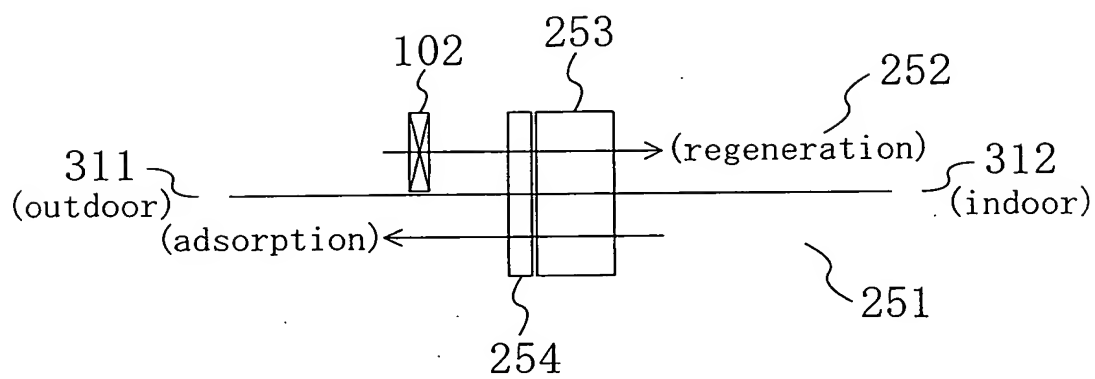


Fig. 15A

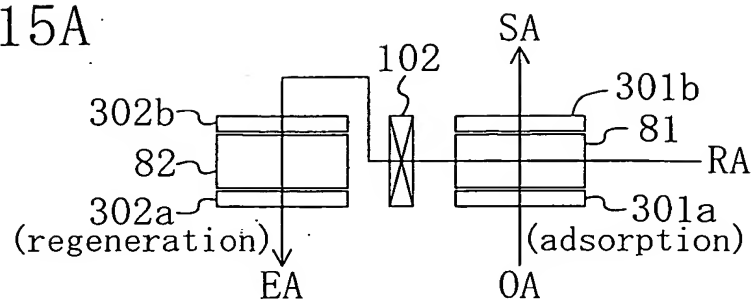


Fig. 15B

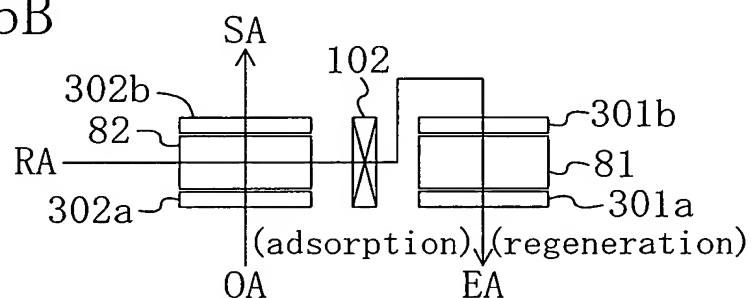


Fig. 15C

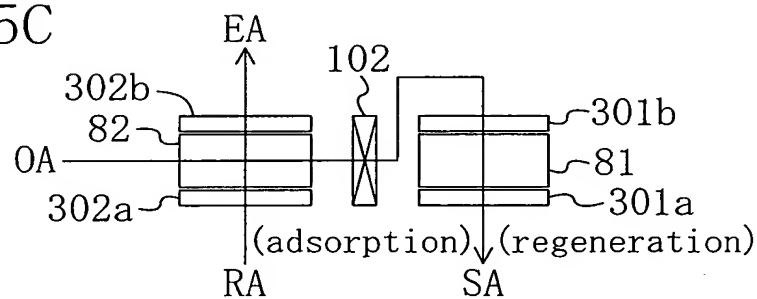
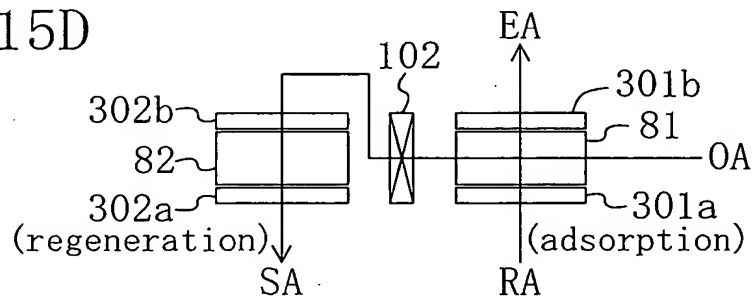


Fig. 15D



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Fig. 16A

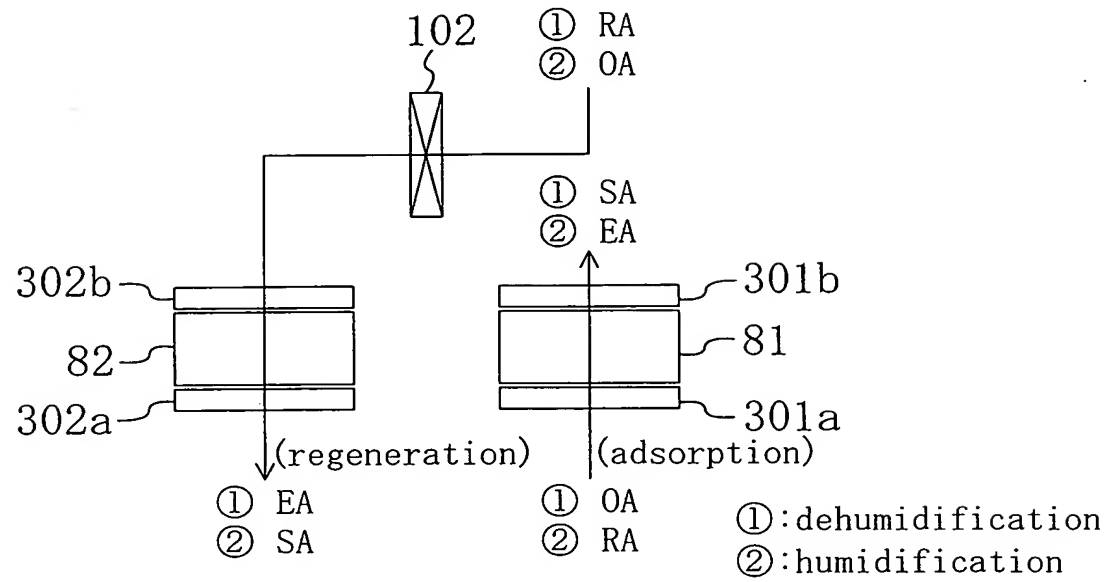
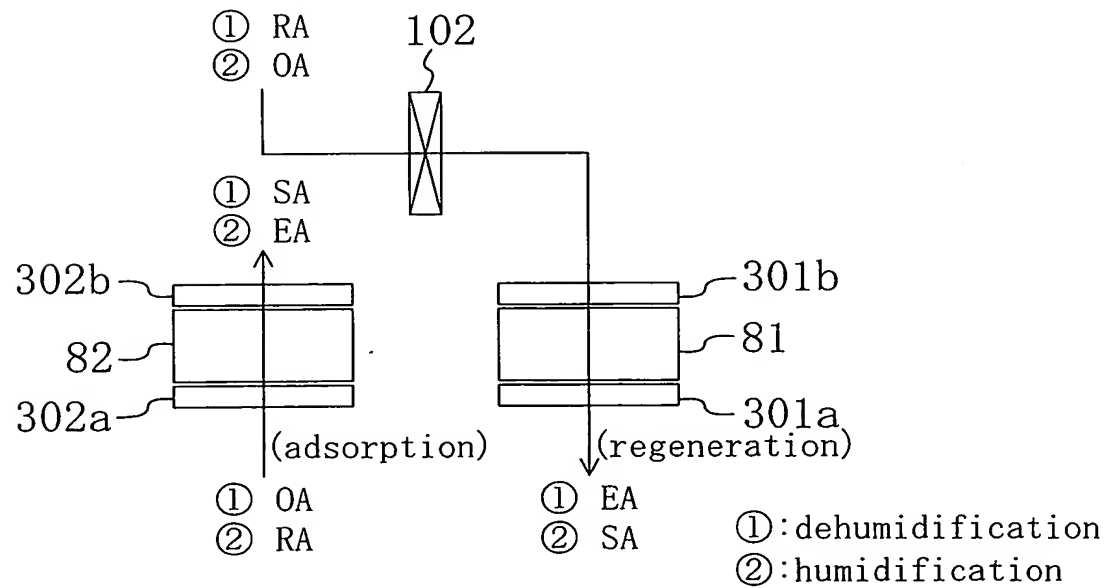


Fig. 16B





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Fig. 17A

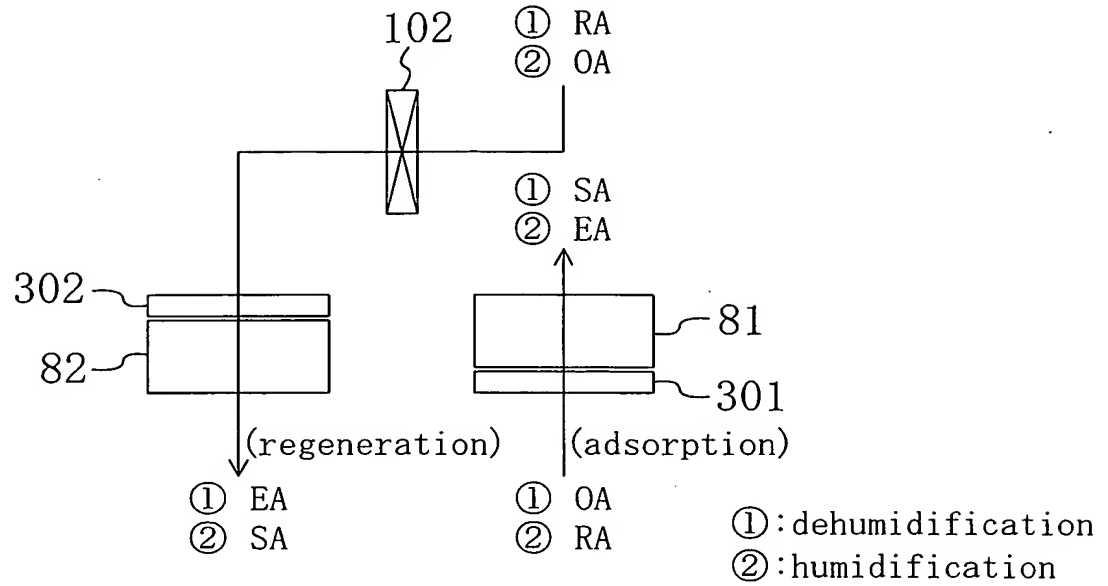


Fig. 17B

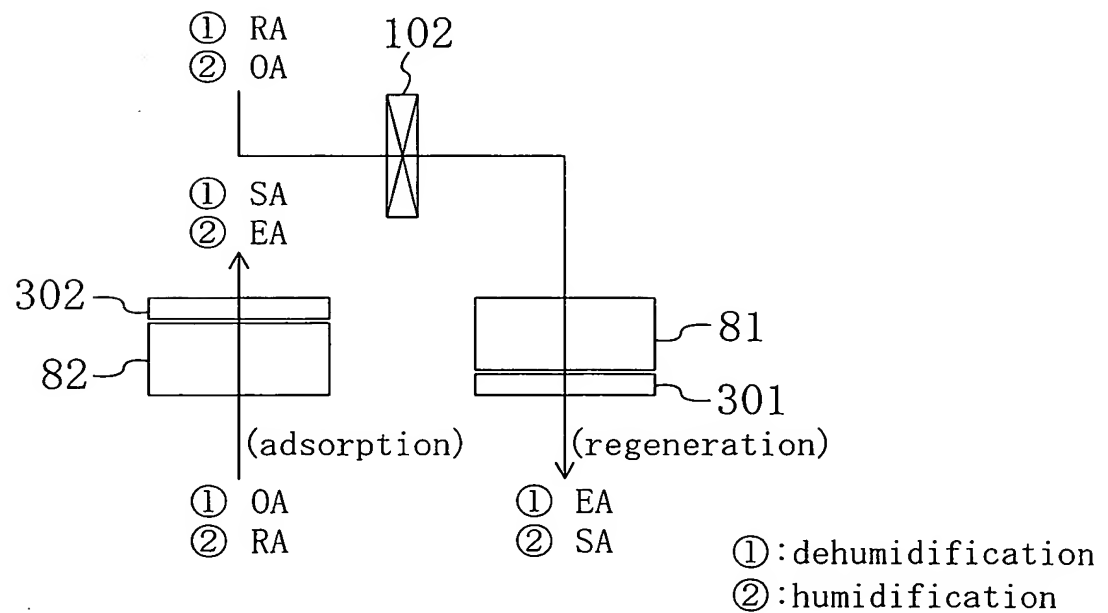


Fig. 18A

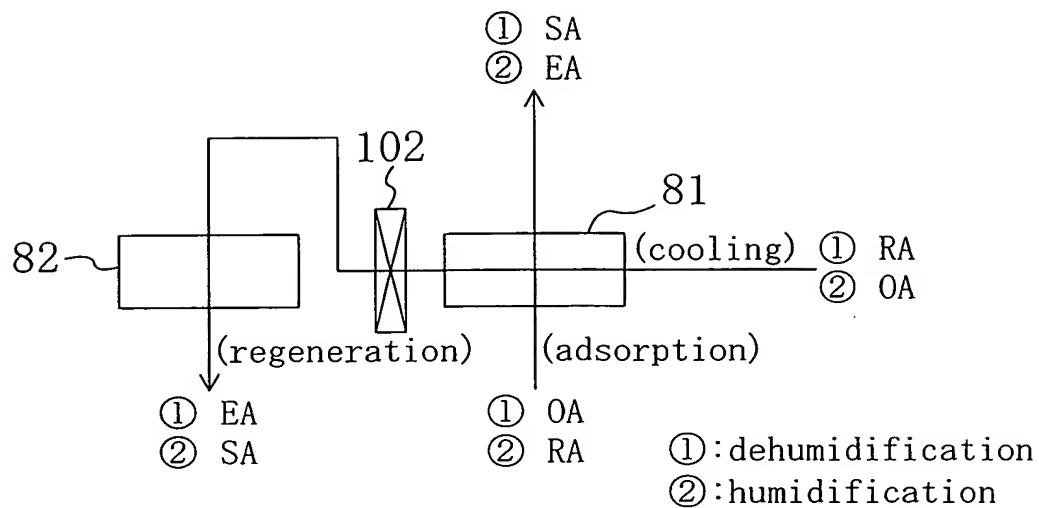
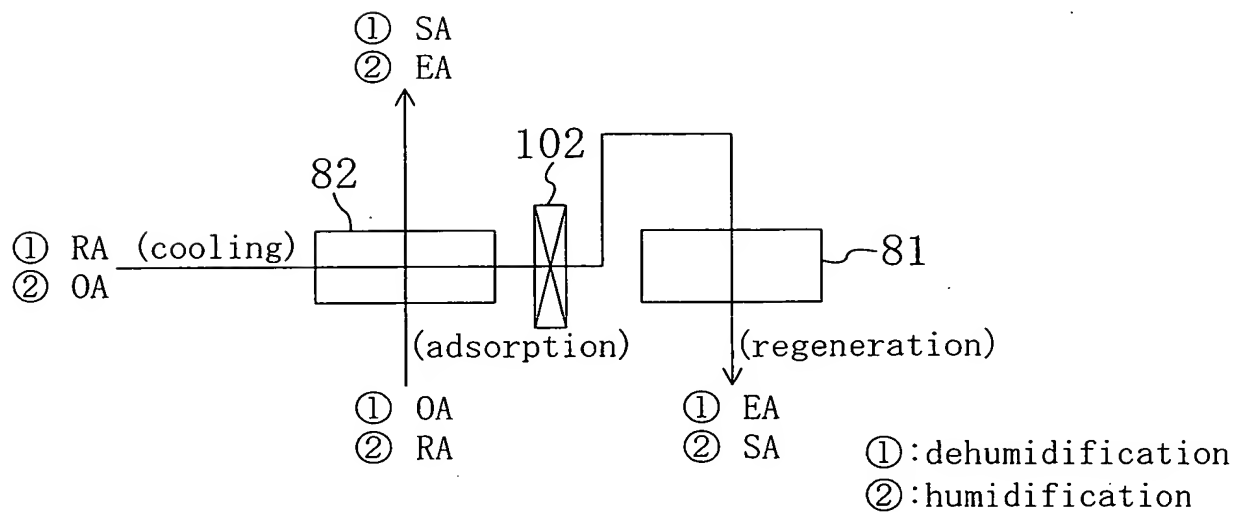


Fig. 18B



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Fig. 19A

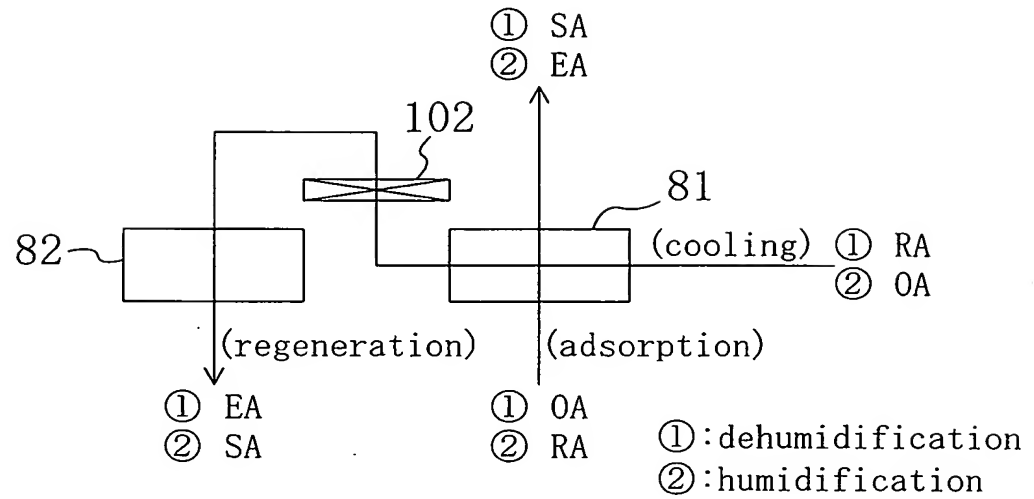
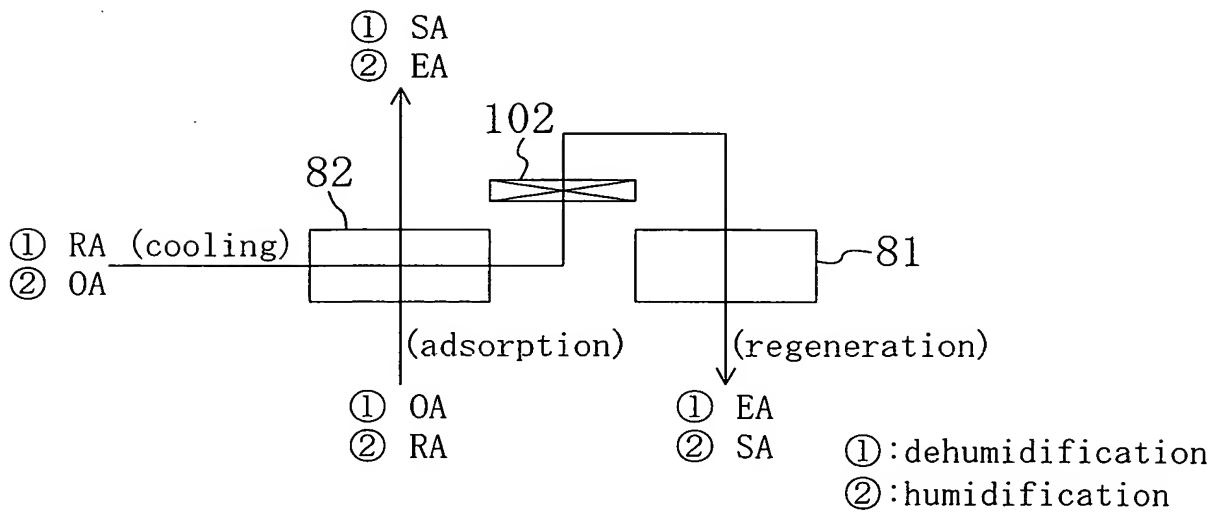


Fig. 19B



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Fig. 20A

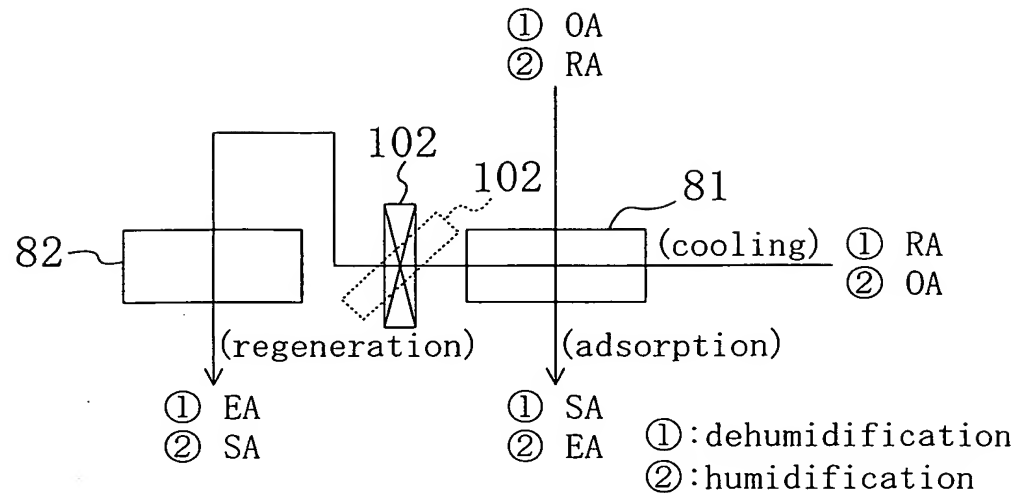


Fig. 20B

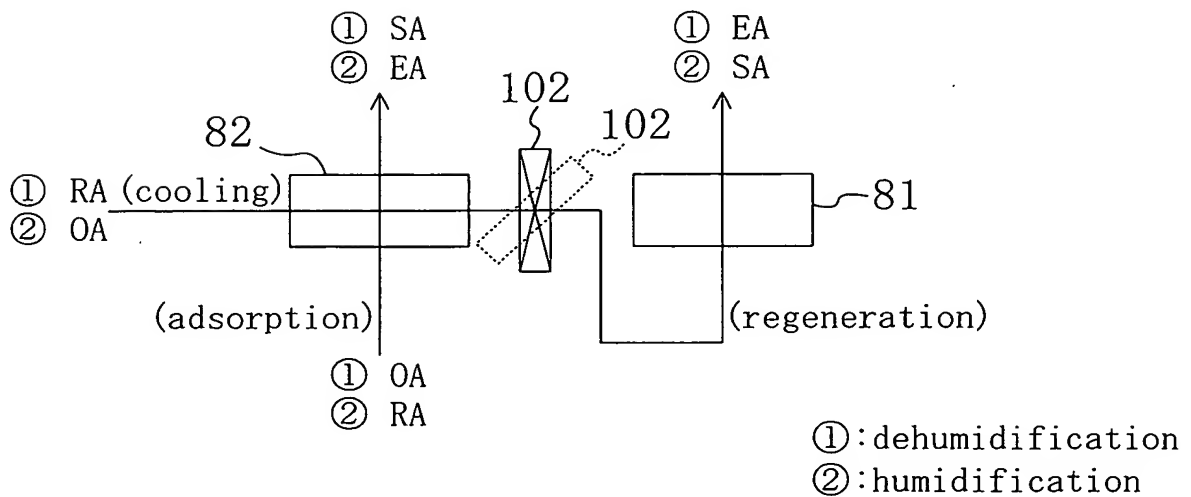


Fig. 21A

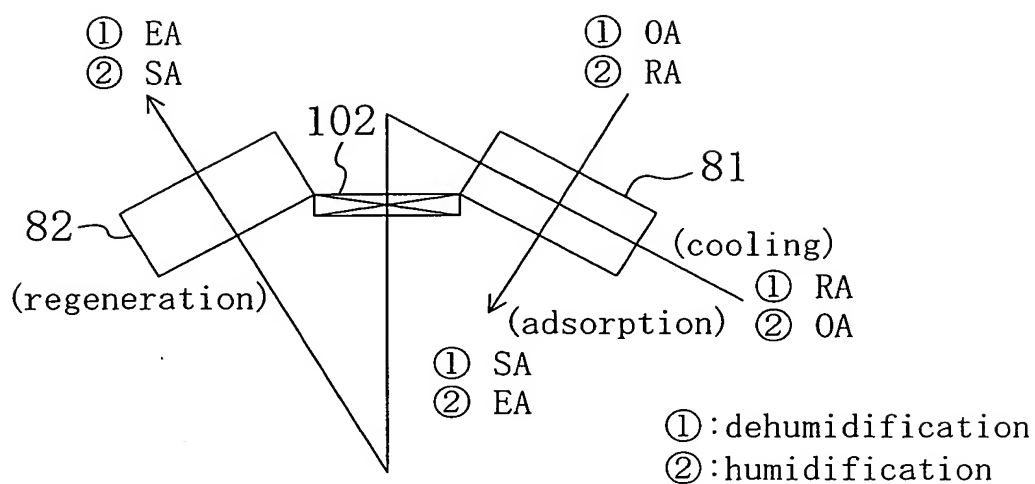
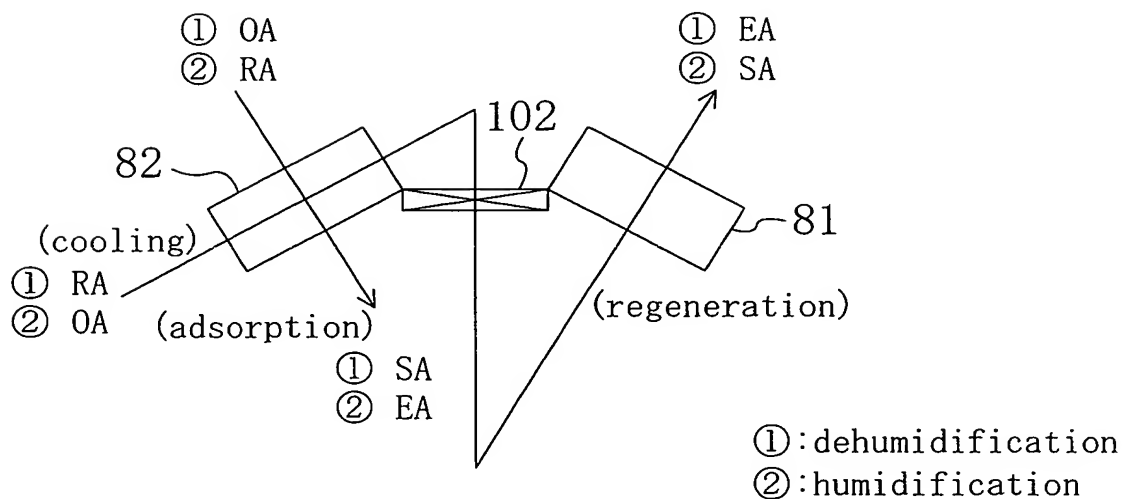


Fig. 21B



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Fig. 22A

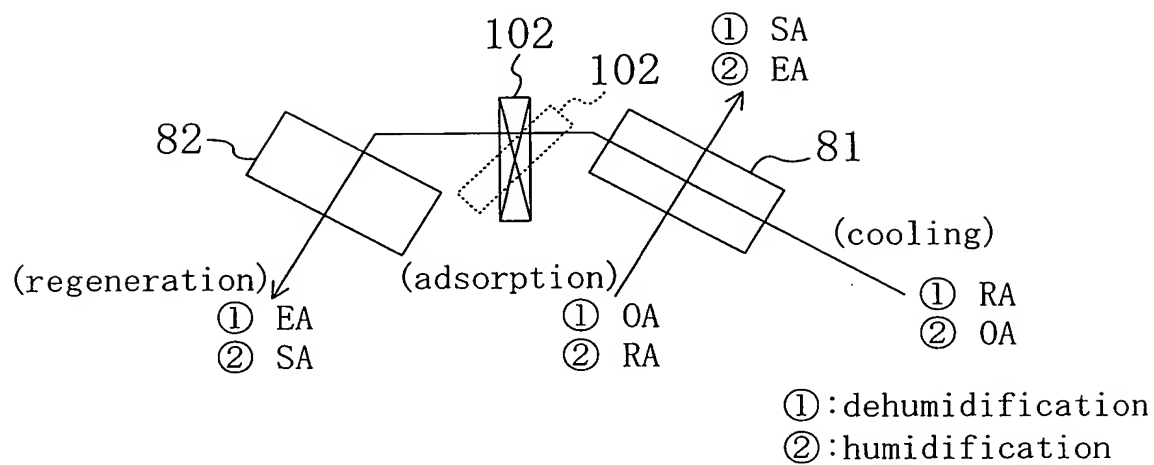


Fig. 22B

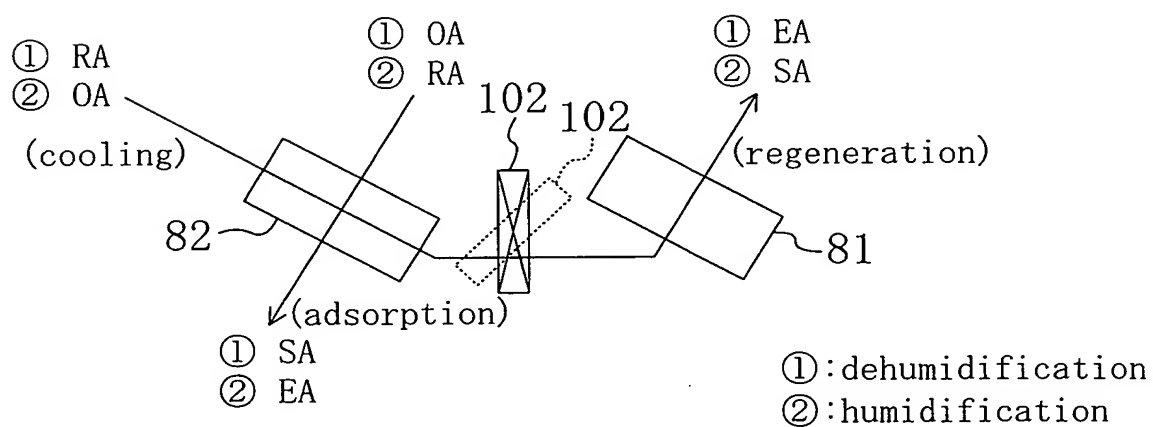


Fig. 23A

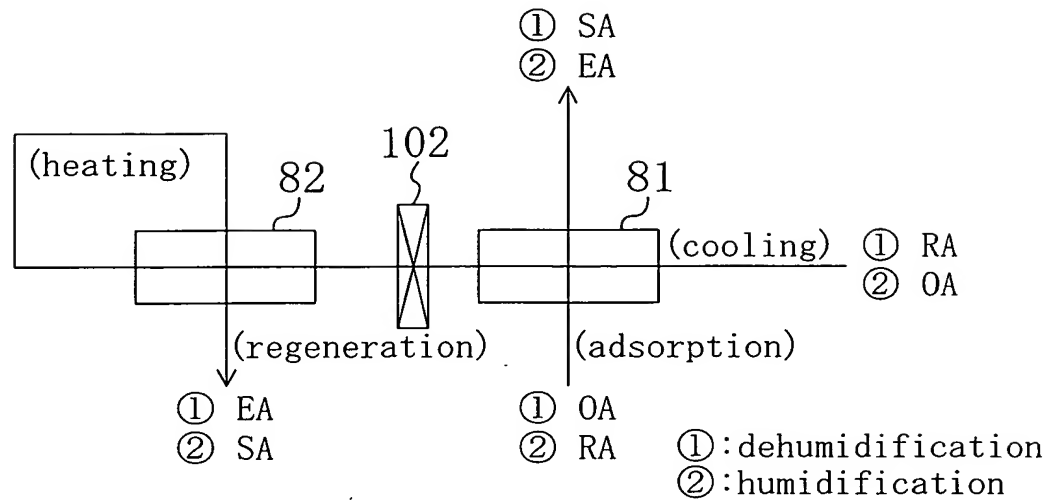


Fig. 23B

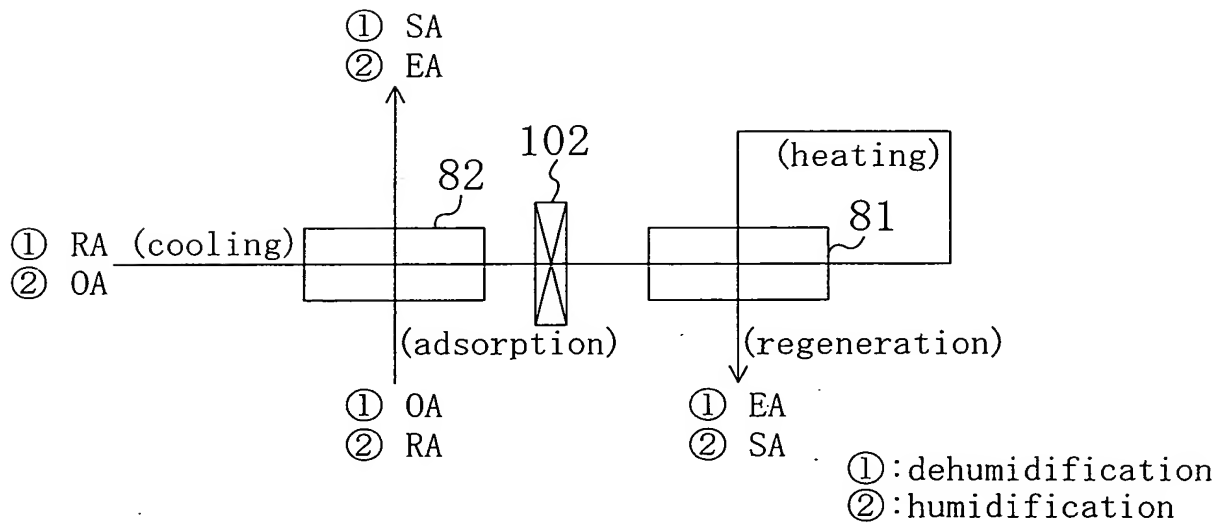


Fig. 24A

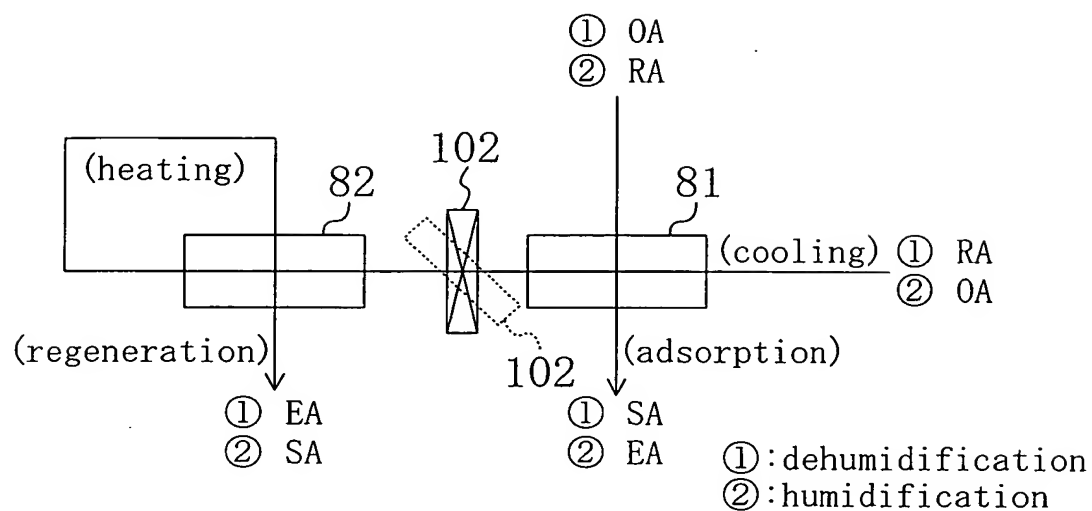


Fig. 24B

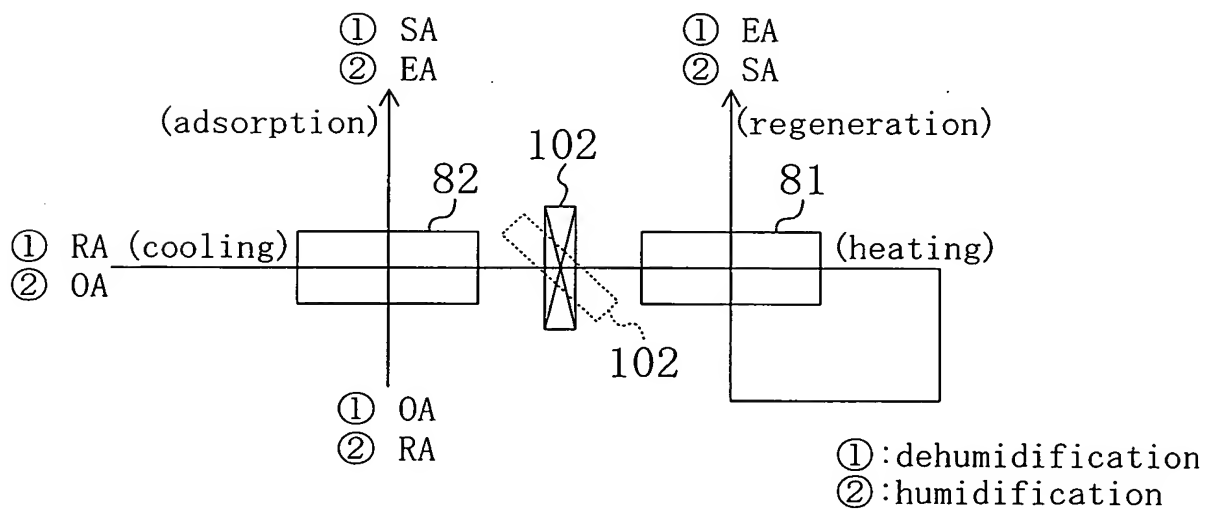




Fig. 25A

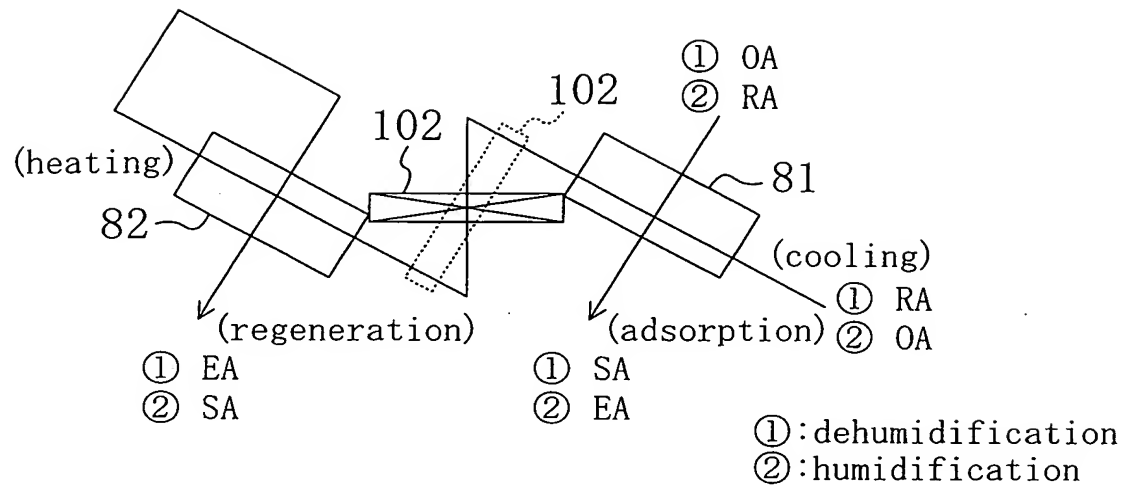


Fig. 25B

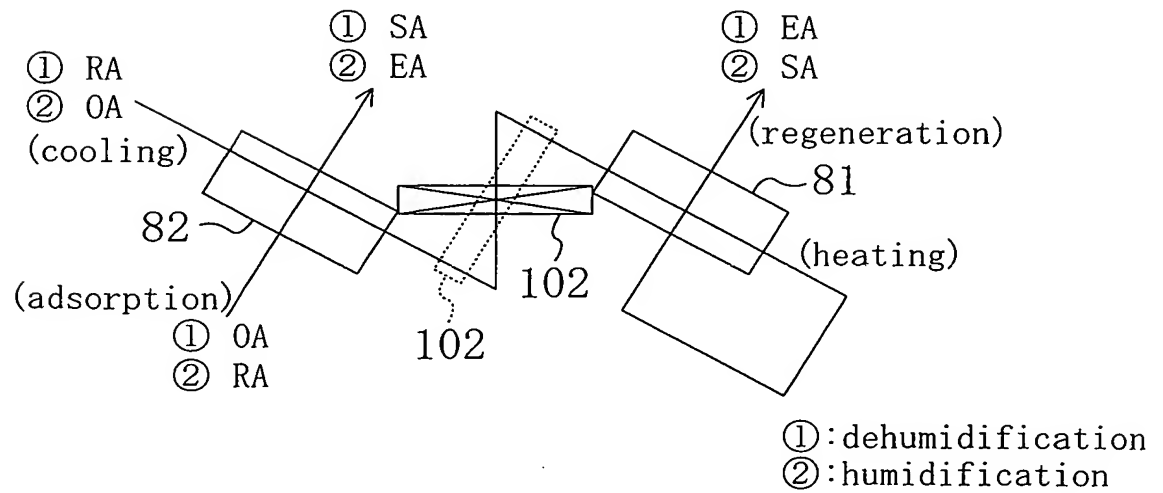


Fig. 26A

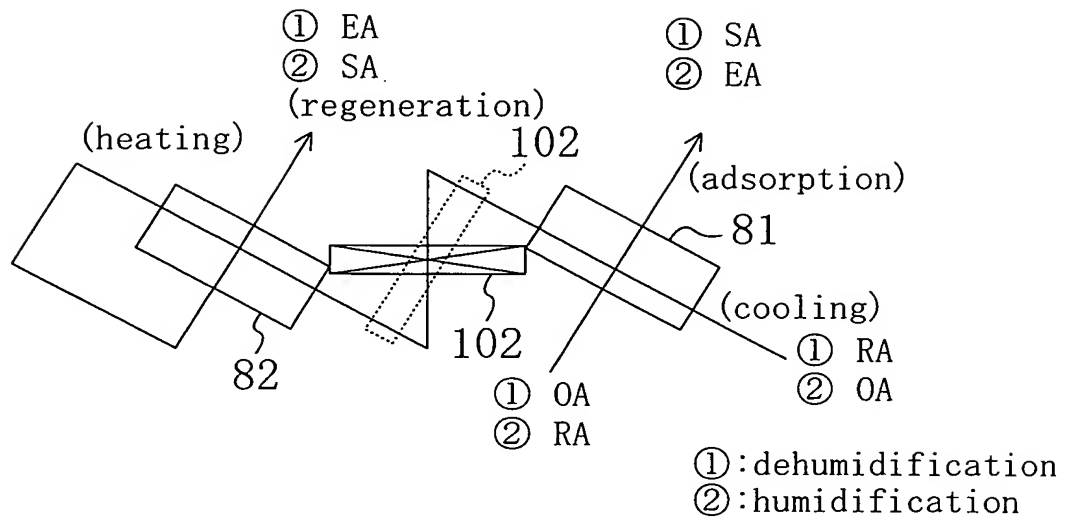
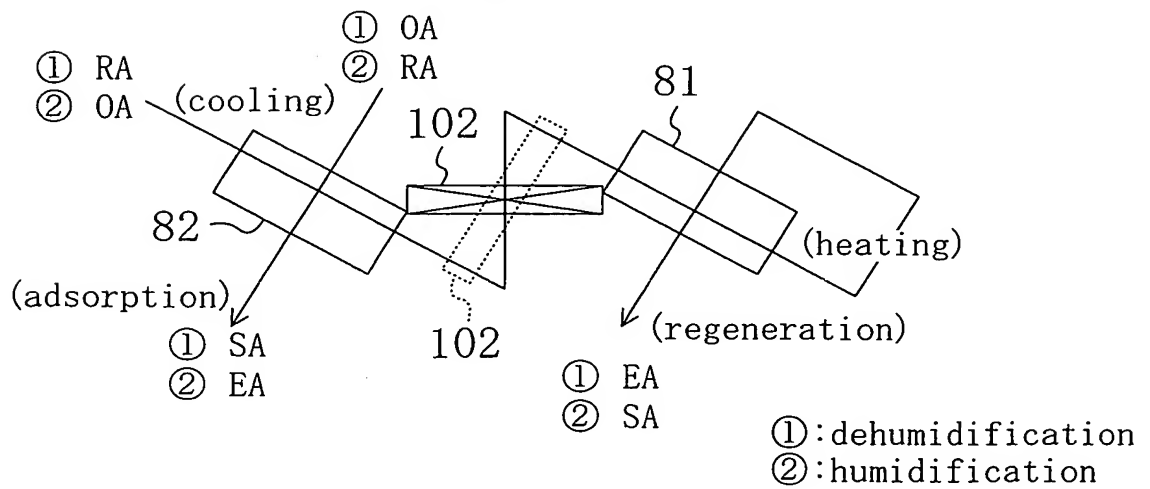


Fig. 26B



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Fig. 27A

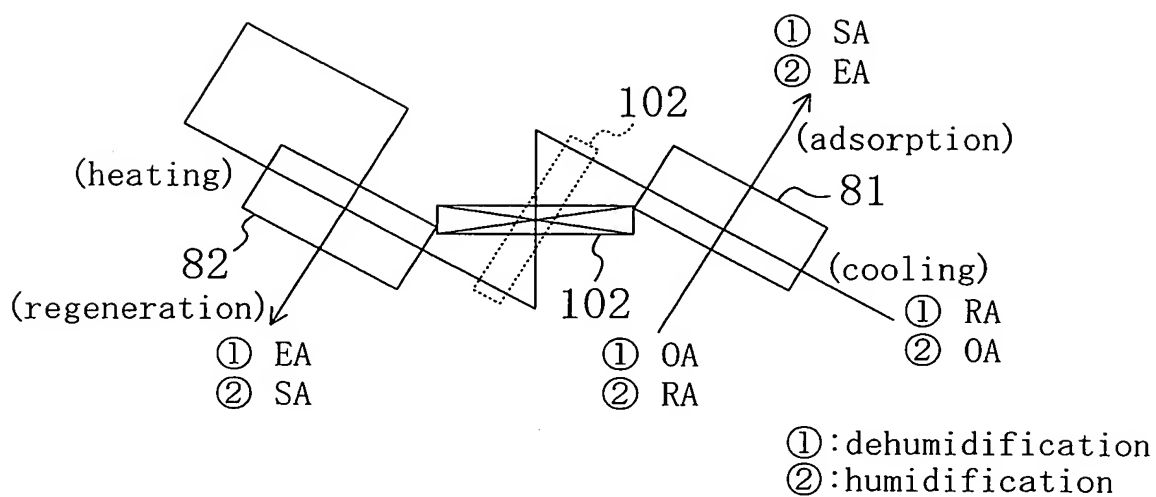
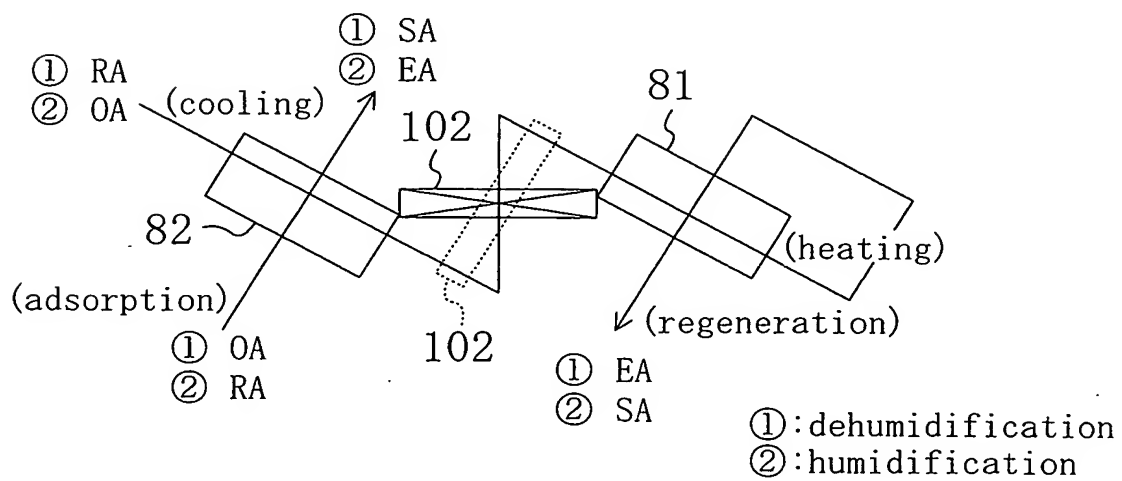
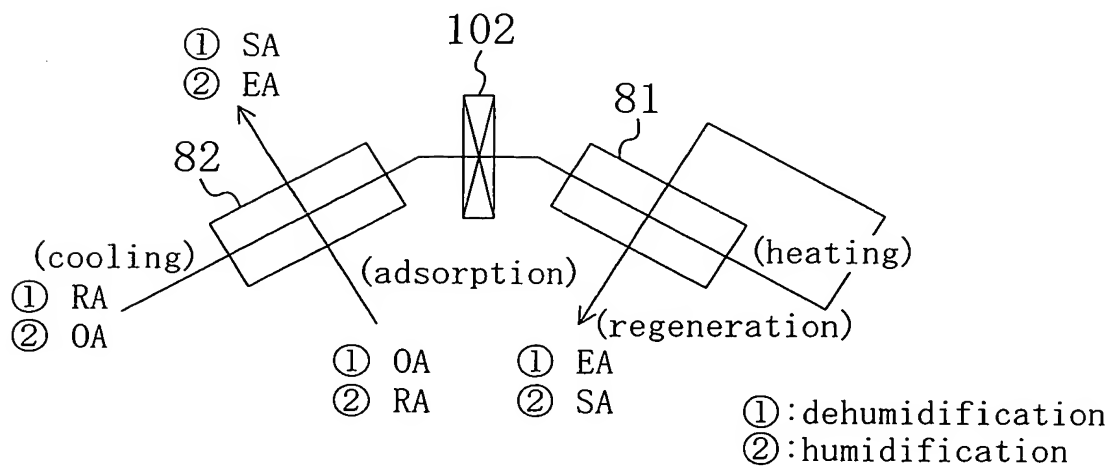


Fig. 27B





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Fig. 29A

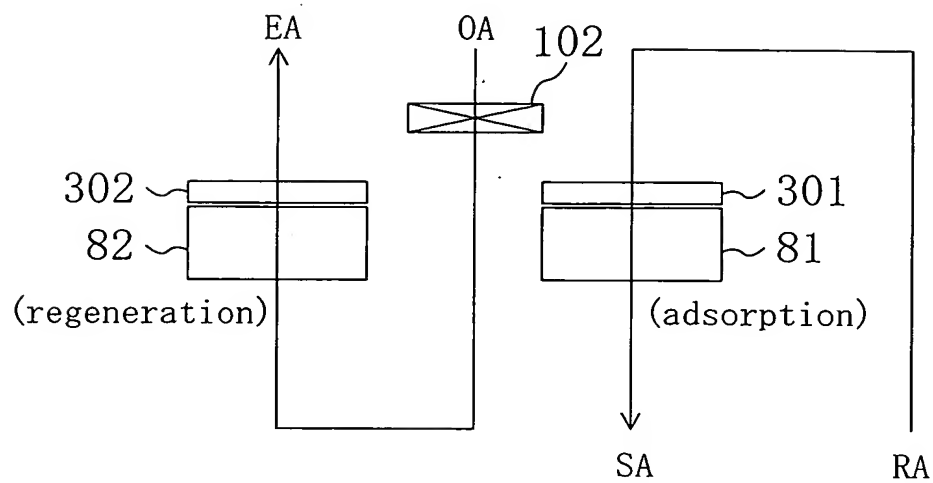
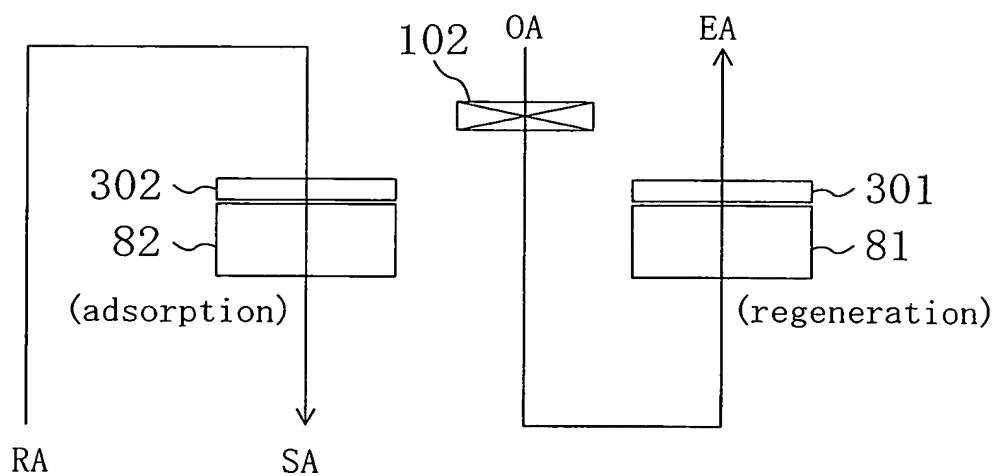


Fig. 29B



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Fig. 30A

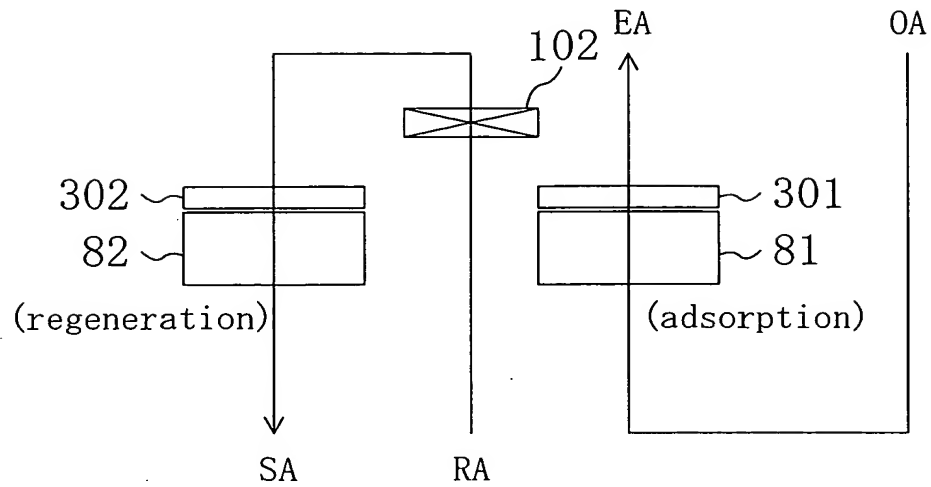


Fig. 30B

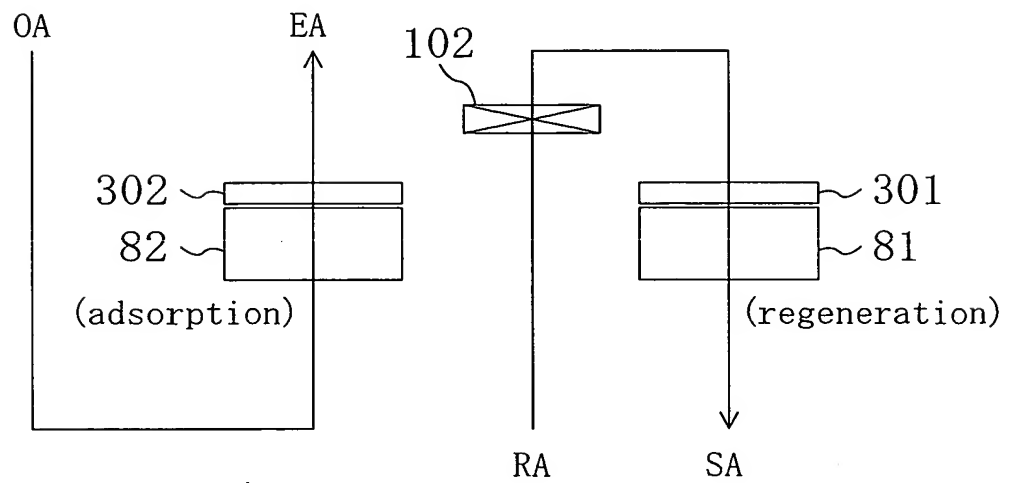


Fig. 31A

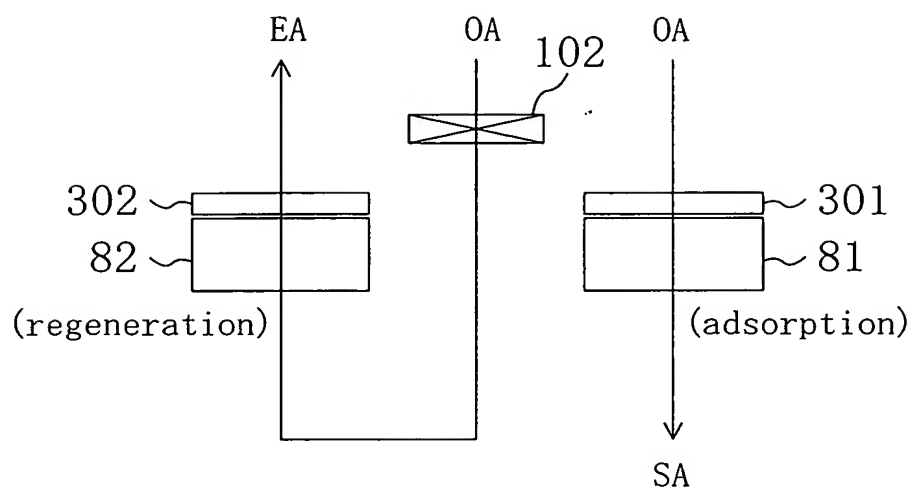


Fig. 31B

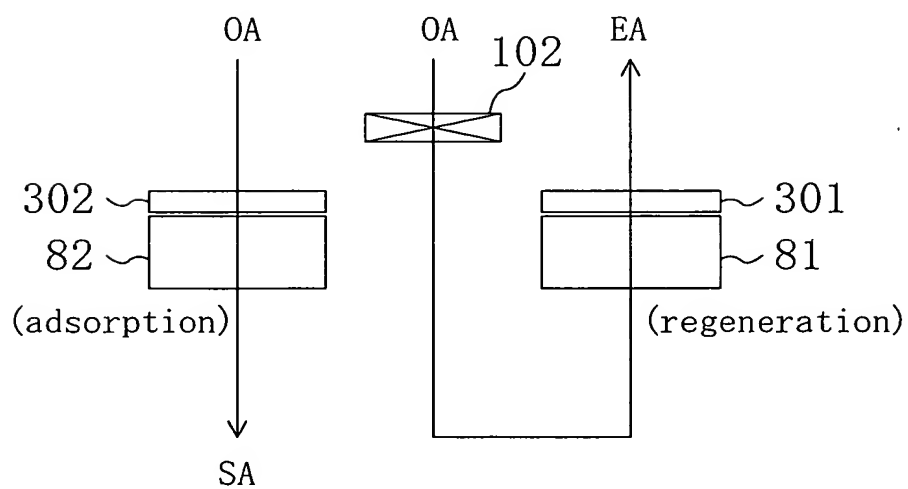


Fig. 32A

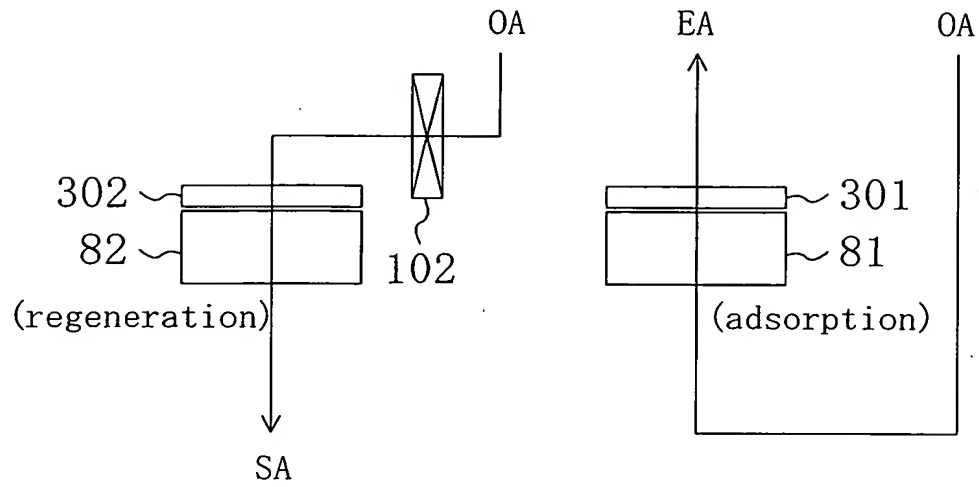
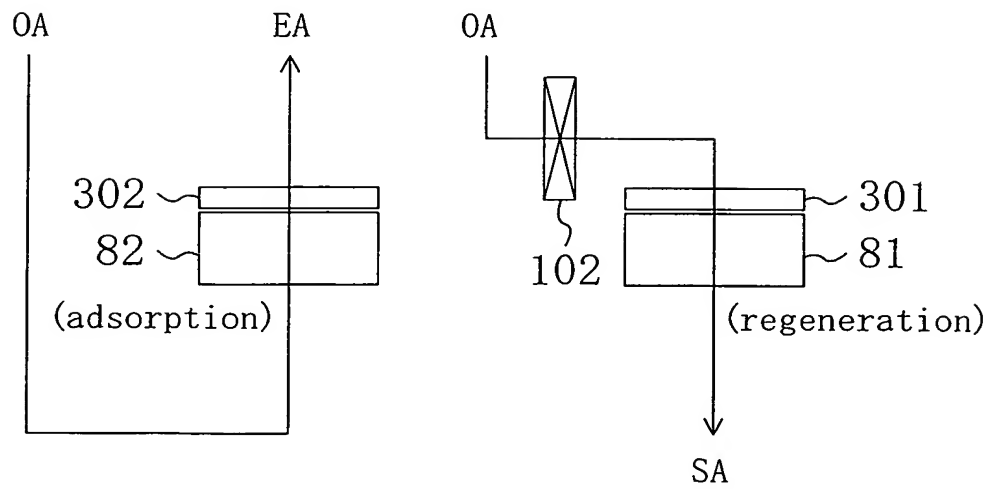


Fig. 32B





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Fig. 33A

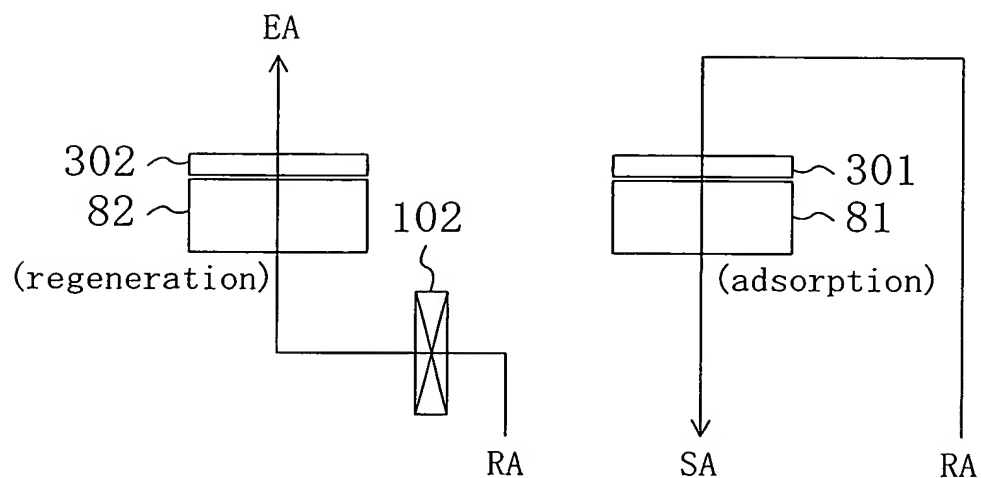
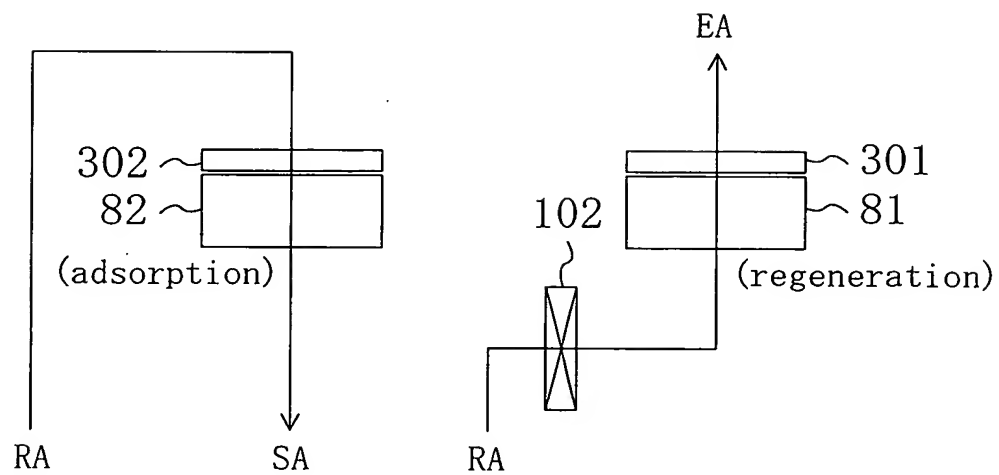


Fig. 33B



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Fig. 34A

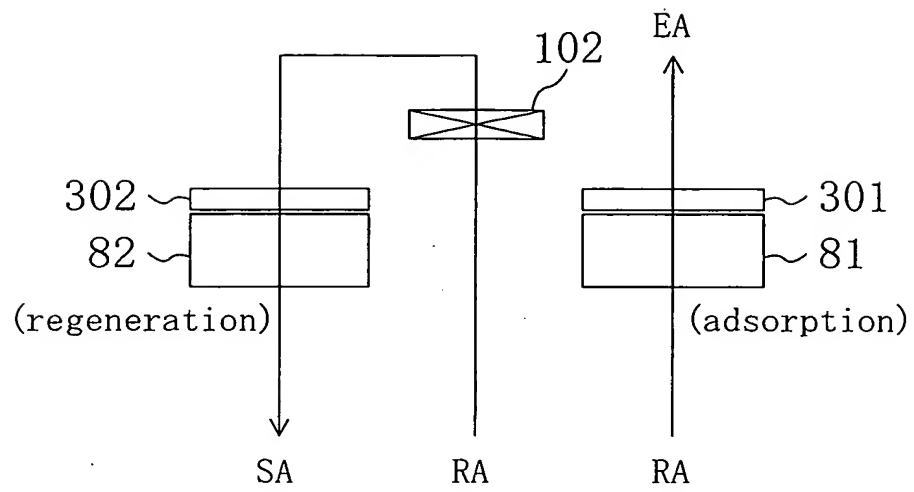
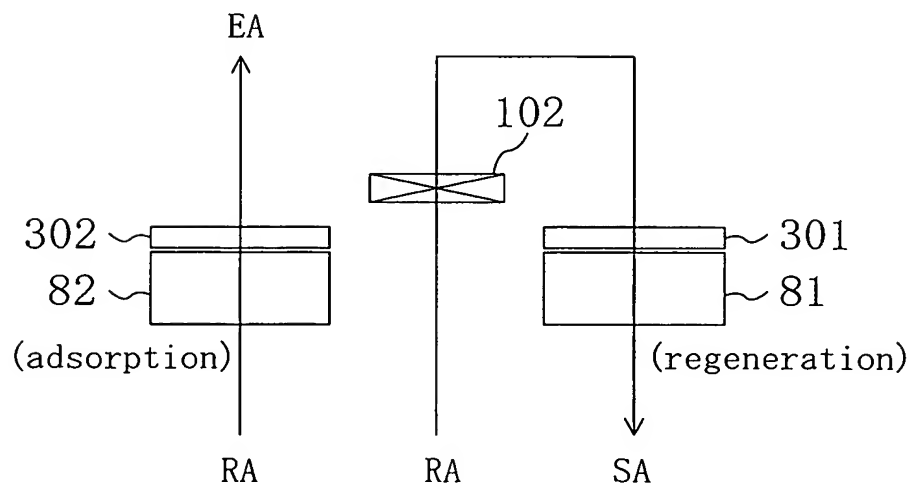


Fig. 34B



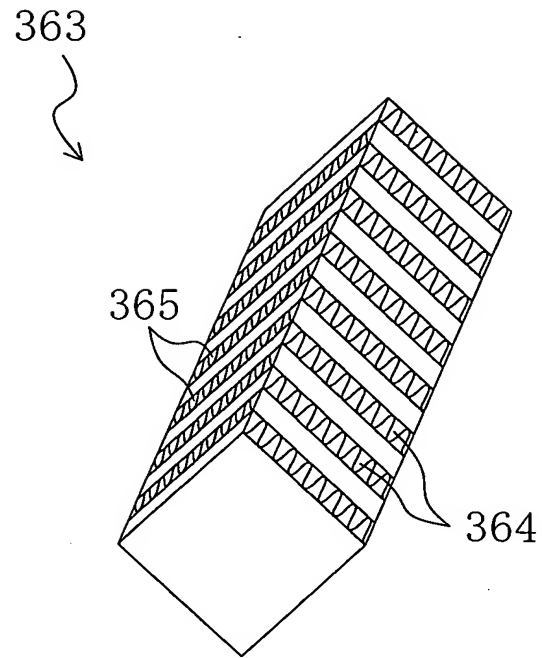
g. 35A

Diagram g. 35A shows a cross-sectional view of a device 350. The device has a diamond-shaped central chamber 350. Four ports are located on the outer edges: 351 (top right), 352 (top left), 353 (bottom left), and 354 (bottom right). Each port is associated with a valve: 361 (top right), 362 (top left), 363 (bottom left), and 364 (bottom right). The valves are shown in a closed position. Arrows indicate flow directions: (RA) for right-to-left flow through port 353, (OA) for left-to-right flow through port 351, (SA) for left-to-right flow through port 352, and (EA) for right-to-left flow through port 354. The device is divided into four quadrants by two vertical lines 365 and 366, and two horizontal lines 367 and 368. The quadrants are labeled 361, 362, 363, and 364. The device is also labeled with 369 at the bottom corners.

g. 35C

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Fig. 36



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Fig. 37A

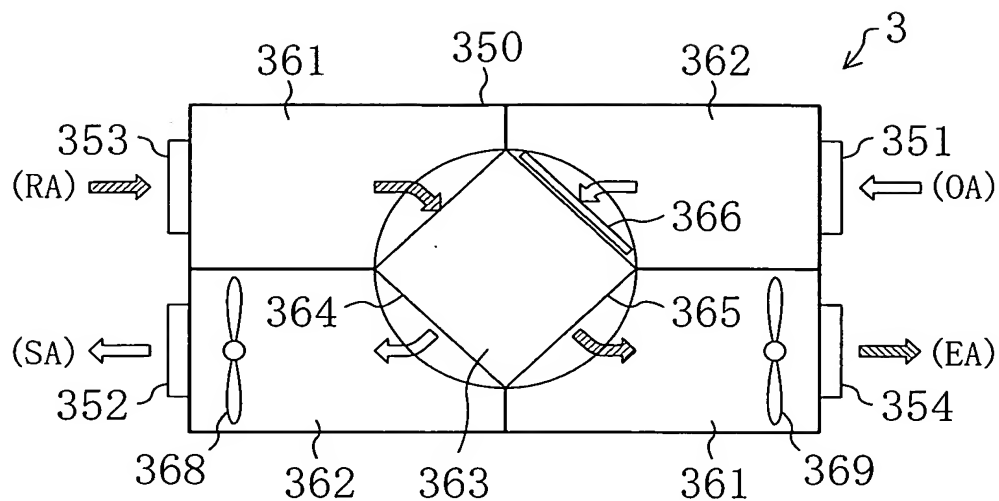
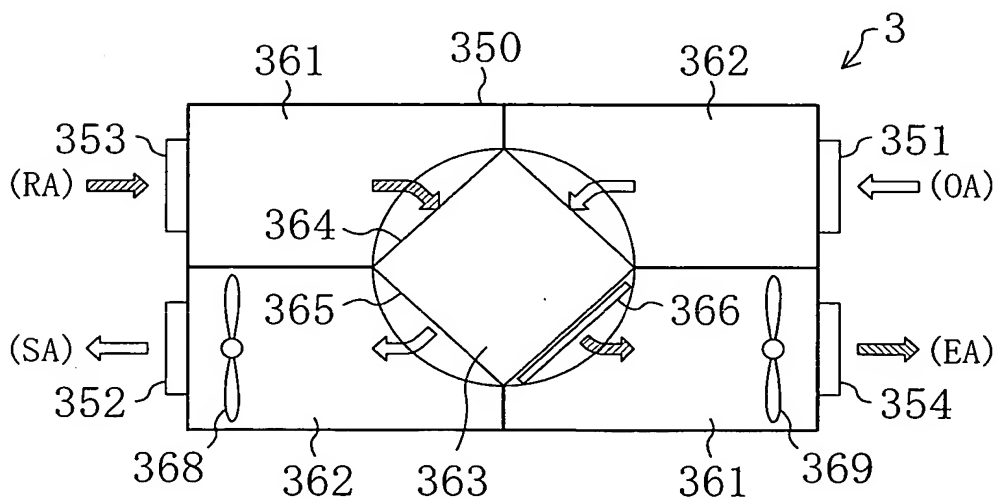


Fig. 37B



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Fig. 38A

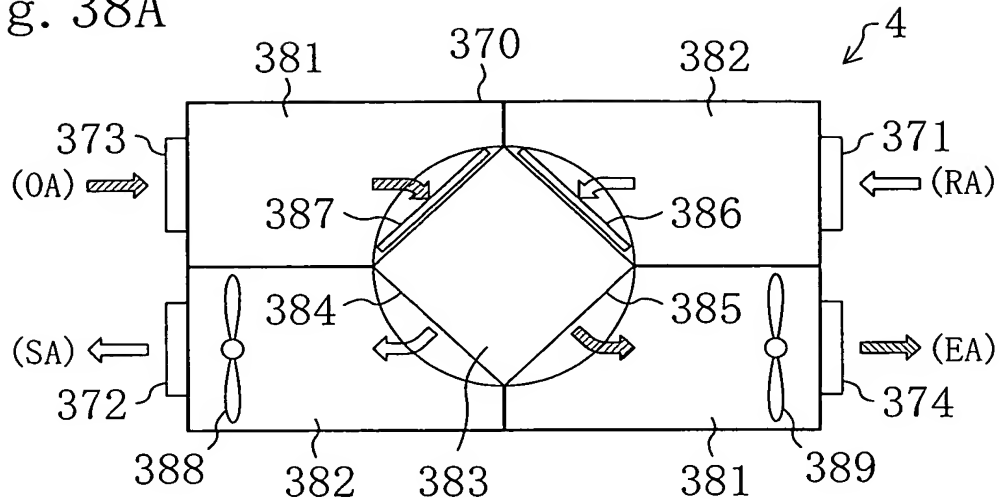


Fig. 38B

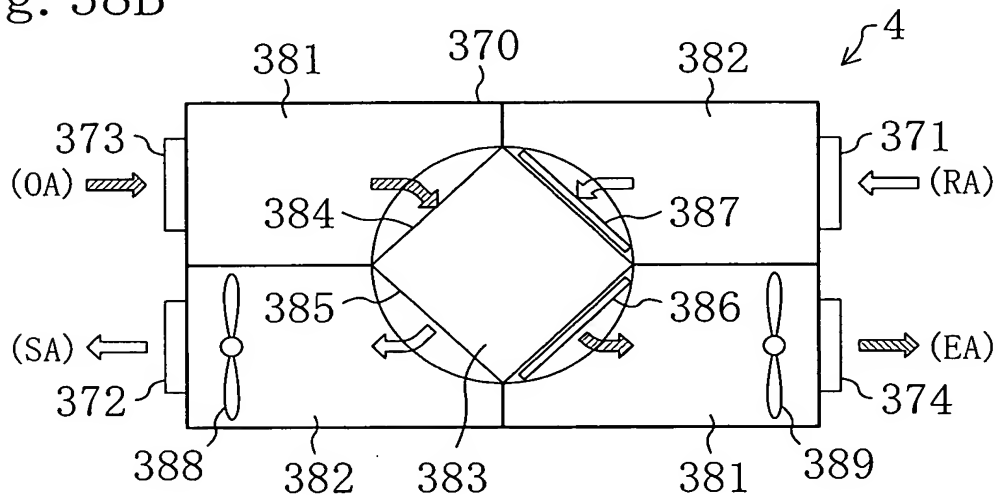


Fig. 38C

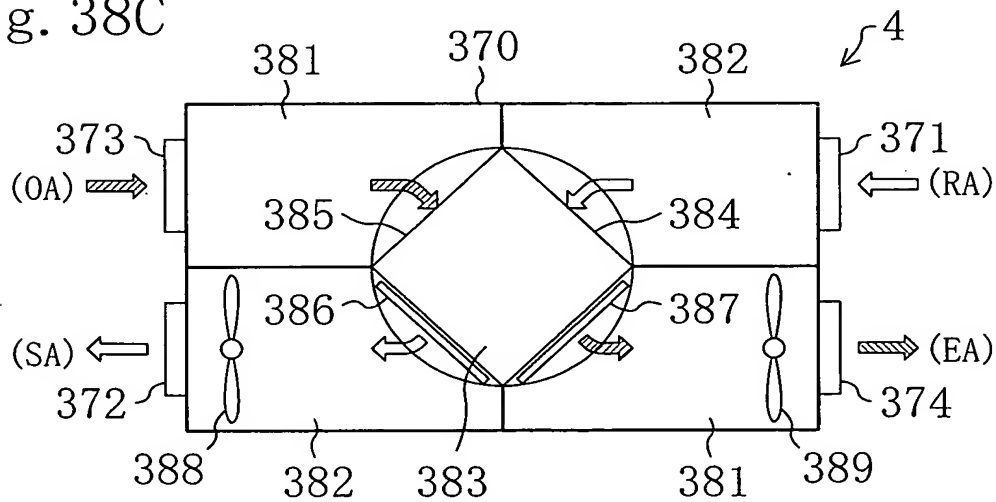


Fig. 39

